

# 2023 AAEA ANNUAL MEETING PROGRAM



**AAEA**  
Agricultural & Applied  
Economics Association

**2023** WASHINGTON  
**AAEA**   
**ANNUAL**  
**MEETING** JULY 23-25, 2023  
AT THE MARRIOTT MARQUIS

[www.aaea.org/meetings/2023-aaea-annual-meeting](http://www.aaea.org/meetings/2023-aaea-annual-meeting)



## Meeting Information

### Registration Desk Hours

Marriott Marquis (M2)

Sunday, July 23, 7:30 am-7:00 pm

Monday, July 24, 7:30 am-5:00 pm

Tuesday, July 25, 7:30 am-4:00 pm

### Wi-Fi Access

AAEA is providing free Wi-Fi access in the Marriott Marquis meeting space for all 2023 Annual Meeting attendees.

Wi-Fi Network: AAEA2023

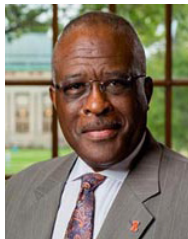
Network Password: AAEA2023

### Accessibility

In accordance with the Americans with Disabilities Act, please inform an AAEA staff member if you need special assistance. Staff members are available on site at the Registration Desk to assist you.

## Plenary Sessions

### Gordon Rausser Keynote Address



Chancellor Robert J. Jones, University of Illinois at Urbana-Champaign

Sunday, July 23

6:00 pm – 7:00 pm

Salon 6-10

### AAEA Presidential Address



Rodolfo Nayga Jr., Texas A&M University

Monday, July 24

8:30 am - 9:30 am

Salon 6-10

*"The Looming Demographic Cliff: A Wake-Up Call for the Agricultural and Applied Economics Profession"*

### AAEA Fellows Address



Mary Bohman, Retired, Bureau of Economic Analysis

Tuesday, July 25

8:30 am – 9:30 am

Salon 6-10

*"Making a difference through trusted, high-quality research and statistics"*

### AAEA Galbraith Forum



Jayoti Ghosh, University of Massachusetts

Tuesday, July 25

6:30 pm – 7:30 pm

Salon 6-10

*"Making a difference through trusted, high-quality research and statistics"*



## Posters

### Salons 1-5 (M2)

Posters will be on display on Monday or Tuesday, with poster authors available during the Poster Reception on Monday from 4:15 pm – 5:30 pm, and the Poster Reception on Tuesday from 11:30 am - 1:00 pm. The M or T at the beginning of each poster number defines which day the poster will be on display. As a reminder to authors, any posters that are not removed by 5:15 pm on Tuesday will be discarded. Setup and take down times for each day are below:

### Monday Posters

Poster Setup: Sunday, July 23: 9:00 am - 4:00 pm  
Monday, July 24: 7:00 am - 8:00 am  
Poster Reception: Monday, July 24: 4:15 pm - 5:30 pm  
Poster Take Down: Monday, July 24: 5:30 pm - 6:30 pm

### Tuesday Posters

Poster Setup: Tuesday July 25: 7:00 am - 8:00 am  
Poster Reception: Tuesday, July 25: 11:30 am - 1:00 pm  
Poster Take Down: Tuesday, July 25: 4:30 pm - 5:15 pm

## Agribusiness Economics and Management - Poster Session

- T01** Dairy Farm Size Distributions: Patterns Over Time  
*Elizabeth A. Fraysse, University of California, Davis; Daniel A. Sumner, University of California, Davis*
- T02** Economic Impact of the 2022 Avian Influenza Outbreak on the US Food Industry  
*Miyeon Son, Oklahoma State University*
- T03** The Impact of Organic Farming on Nitrogen Balance in OECD Countries: Evidence from the Panel ARDL Framework  
*GwanSeon Kim, Arkansas State University; Hoyeon Jeong, University of Kentucky; Jacob Manlove, Arkansas State University; Jun Ho Seok, Jeonbuk National University*
- T04** The Corporatization of Veterinary Medicine: An Empirical Analysis of Its Impact on Independent Practices  
*Sandro Steinbach, North Dakota State University*
- T05** The Competitive Impact of Grocery Retailer Entry by Location and Store Types  
*Donghoon Kim, University of Connecticut; Sandro Steinbach, North Dakota State University; Rigoberto A. Lopez, University of Connecticut; Keenan Marchesi, USDA-Economic Research Service*
- T06** Economic Impacts from the Loss of a Dairy Farm in Minnesota  
*Rebecca Weir, University of Minnesota*
- T07** Valuing the Positive Externalities of Pesticide Use: Lygus Bugs Control in the San Joaquin Valley of California  
*Yanan Zheng, University of California, Davis; Rachael E. Goodhue, University of California, Davis*
- T08** Uncovering Factors Associated With Price Ranges from Fed Cattle Negotiated Cash Sales Using Machine Learning  
*Zuyi Wang, Utah State University; Hernan A. Tejeda, University of Idaho; Man-Keun Kim, Utah State University*
- T09** Where's The End in Rising Tractor Prices  
*Robert C. Ellis, University of Kentucky; Tyler B. Mark, University of Kentucky; Christopher Ortiz, University of Kentucky*
- T10** The Welfare Analysis: The Impacts of COVID-19 on the U.S. Salmon Sector  
*Ly Nguyen, University of Florida; Andrew Schmitz, University of Florida; Lucas Garcia, Texas A&M University*
- T11** Impact of Expansion of Microfinance Institutions (MFIs) on Agricultural Output  
*Biswo N. Poudel, Kathmandu University; Krishna P. Paudel, USDA-Economic Research Service*
- T12** Household Food Waste Trending Upwards in the United States: Insights from a National Tracking Survey  
*Ran Li, The Ohio State University; Yiheng Shu, Jiangnan University; Kathryn Bender, University of Delaware; Brian E. Roe, The Ohio State University*



- T13** Technology Transfer: Externalities and Organized Activism  
*Ahmed Chennak, University of Nebraska-Lincoln; Amalia Yiannaka, University of Nebraska-Lincoln*
- T14** A Demand System Estimation of Field Corn on China's Export Restriction: Using LA/AIDS Approach  
*Mira Choi, Korean Rural Economic Institute; Kyeong-ho Kim, Korean Rural Economic Institute; Kyungsoo Nam, Korean Rural Economic Institute*
- T15** Crop Choice and Nitrate Pollution in Groundwater  
*Scott Somerville, University of California, Davis; Jeffrey Hadachek, University of California, Davis*
- T16** Is the Willingness to Pay for Digital Agricultural Solutions Reasonable for Companies As Well? : Using the Contingent Valuation Methods  
*Miseok Kim, Seoul National University; Do-il Yoo, Seoul National University*
- T17** How Communication Affects the Adoption of Technologies in Agriculture: A Comparative Study in the United States and Brazil  
*Joana Colussi, University of Illinois at Urbana-Champaign; Gary D. Schnitkey, University of Illinois at Urbana-Champaign; Steven T. Sonka, University of Illinois at Urbana-Champaign; Eric Morgan, University of Illinois at Urbana-Champaign; Antonio Dmingos Padula, Federal University of Rio Grande Do Sul*
- T18** Can Indoor Agriculture Farms Achieve Economic Sustainability in Urban Areas Through its Revenue Generating Ability?  
*Jisub Seong, Michigan State University; Simone Valle De Souza, Michigan State University; Christopher Peterson, Michigan State University*

## **Agricultural Finance and Management - Poster Session**

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- T19** Valuing Intangible Capital in Agribusinesses: A Re-Examination of the Neoclassical Theory of Investment  
*Gerald Mashange, Kansas State University; Brian C. Briggeman, Kansas State University*
- T20** Farm Sector Debt, Interest Expenses, Liquidity, and Solvency  
*Dipak Subedi, USDA - Economic Research Service; Anil K. Giri, USDA-Economic Research Service*
- T21** Assessing Digital Opportunities for the Distribution and Product Design of Agricultural Microinsurance  
*Ella Kirchner, Georg-August-University of Goettingen; Oliver Musshoff, Georg-August-Universität Goettingen*
- T22** Impacts of Onshore Oil and Natural Gas Drilling and Extraction on U.S. Farm Loan Delinquencies During the Shale Boom  
*Haotian Wu, The Ohio State University; Allen Klaiber, The Ohio State University; Ani Katchova, The Ohio State University*
- T23** The Effect of Farm Credit System Mergers on Agricultural Banks: Evidence from Activity and Markups  
*Francisco Albert Scott, Federal Reserve Bank of Kansas City*
- T24** Smallholders' Experiences with Credit and Financial Institutions and their Impact on Long-Term Investment – the Case of Oil Palm Replanting in Costa Rica  
*Jakob V. Latzko, University of Goettingen; Matin Qaim, University of Bonn*
- T25** Macroeconomic Factors and the Stock Prices of U.S. Hemp Firms  
*Abraham O. Ajibade, University of Kentucky; Tyler B. Mark, University of Kentucky*
- T26** The Impact of Extreme Weather on Farm Finance - Evidence from Kansas  
*Osama Sajid, Cornell University; Jennifer Ifft, Kansas State University; Ariel Ortiz-Bobea, Cornell University*
- T27** Default Rates and Client Household Characteristics of Microfinance Institution in Eastern India  
*Soumi Chandra, North Carolina State University*
- T28** Financial Well-Being of Farm Households: A Theoretical Framework and Case Study  
*Zekuan Dong, Michigan State University; Melissa G. S. McKendree, Michigan State University*



- T29** Value Chain Financing Behavior of Nigerian Maize Traders  
*Ibrahim W. Hassen, Michigan State University; Saweda Liverpool-Tasie, Michigan State University; Thomas A. Reardon, Michigan State University*
- T30** Community Engagement With Small and Mid-Sized Farms: Findings from the Minnesota Statewide Cooperative Partnership Producer Survey  
*Casey J. McNichols, University of Minnesota; Hikaru Hanawa Peterson, University of Minnesota*

## **Agricultural Policy - Poster Session**

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- M01** Economic Impacts of Longer Lay Cycle: The Case of the Canadian Egg Industry  
*Ousmane Z Traoré, Laval University; Maurice A. Doyon, Laval University*
- M02** Consumer Acceptance of CRISPR: Evidence from Incentive-Aligned Online Experiments  
*Shuyue Deng, Cornell University; Aaron A. Adalja, Cornell University; Jura Liaukonyte, Cornell University*
- M03** Policies to Achieve Sustainability in the Colorado River Basin Under Climate Change Conditions and Growing Demand: A Hydro-Economic Analysis  
*Daniel Crespo, University of California, Riverside; Mehdi Nemat, University of California, Riverside; Ariel Dinar, University of California, Riverside; Zachary Frankel, Utah Rivers Council; Nick Halberg, Utah Rivers Council*
- M04** Estimation of Commodity-Level Demand Elasticities Across Countries  
*Youngheon Jeon, University of Missouri - Columbia; Wyatt Thompson, University of Missouri - Columbia; Hoa T.K. Hoang, University of Missouri-Columbia*
- M05** Assessing the Impact of China's Granary County Subsidy Program on Grain Production  
*Zhina Wang, Huazhong Agricultural University; Xuan Chen, Huazhong Agricultural University; Longzhong Shi, Huazhong Agricultural University*
- M06** Meat Tax and Plant-Based Meat Labeling: What do Consumers Prefer?  
*Daniele Asioli, University of Reading; Marija Banovic, Aarhus University; Ada Maria Barone, University of London*
- M07** Spring Frost and Drought Risk for Perennial Crops Under Changing Climate Conditions  
*Anna Schmid, University of Bern and Oeschger Centre for Climate Change Research*
- M08** Risk Assessment of "Three Rights Separation" Policy of Grassland in Pastoral Area of China Based on Entities' Behavior  
*Yunna Bao, Peking University*
- M09** The Effect of Place-Based Agricultural Policy on Food Security  
*Zongyin Zhao, Zhejiang University Public Affairs Department; Xiaoxiao Dou, China Academy for Rural Development (CARD), Zhejiang University, China; Wenrong Qian, Zhejiang University*
- M10** Triple Benefits of Repositioning Agricultural Supporting Policy to Promote the Sustainable Transformation of Agrifood Systems  
*Zongyi Wu, China Agricultural University; Xiaolong Feng, China Agricultural University; Yumei Zhang, China Agricultural University; Shenggen Fan, China Agricultural University*
- M11** The Role of Primary Factors and Households in the Transmission of Exchange Rate to Domestic Prices of Raw and Processed Food Products  
*Zari Sarabi, Tehran University; Vahideh Ansari Il, University of Tehran; Omid Karami, Purdue University*
- M12** Exploring U.S. Cannabis Markets: Estimating Cannabis Consumption by State and the Legal Share of Cannabis in California  
*Jarrett Hart, University of California, Davis; Daniel A. Sumner, University of California, Davis; Robin Goldstein, University of California, Davis; Olena Sambucci, University of California, Davis*



- M13** The Effect of Asymmetric Information on Smallholders Participation and Net Income: Empirical Evidence from India  
*Vishnu Shankarrao Kedar, Narsee Monjee Institute of Management Studies (NMIMS), India; Alwin Dsouza, New Mexico State University; Parmod Kumar, Giri Institute of Development Studies, India*
- M14** Incorporating Uncertain Into USDA Farm Income Forecasts  
*Wilson Collins, North Carolina State University; Olga Isengildina Massa, Virginia Tech University; Kathryn A. Boys, North Carolina State University*
- M15** Impact of Market Sentiment Around USDA Announcements on Agricultural Commodity Markets  
*Raghav Goyal, Louisiana State University; Siddhartha S. Bora, West Virginia University; Wenying Li, Auburn University; Qingxiao Li, Louisiana State University*
- M16** Consumer Confusion Associated With the Term “Milk” on Dairy and Non-Dairy Beverage Labels  
*Jack S. Myers, University of Arkansas; Trey Malone, University of Arkansas; Brandon R. McFadden, University of Arkansas; Christopher A. Wolf, Cornell University*
- M17** An Economic Evaluation of Margin-Based Policy Programs  
*Helen C. Wakefield, Texas A&M University; Joe L. Outlaw, Texas A&M University; Bart L. Fischer, Texas A&M University*

## Applied Risk Analysis - Poster Session

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- M18** Side-Selling: Experimental Evidence from Mexico  
*Stephen M. Pitts, University of Minnesota; Chris M. Boyd, Towson University; Grant X. Storer, University of San Francisco*
- M19** Using Crop Insurance Pricing Framework to Calibrate Missing Agricultural Yields  
*Francis TsiBoe, USDA - Economic Research Service; Dylan Turner, USDA Economic Research Service*
- M20** Premium Rate Adequacy of Rainfall Index Insurance: Case of Cyclical Weather Pattern and Current Rating Methodology  
*Shyam Adhikari, Aon*
- M21** Farmers Display More Risk Aversion in the Context of Agricultural Climate Adaptation Than in General Lottery Experiments  
*Natalie R. Loduca, Michigan State University; Scott M. Swinton, Michigan State University*
- M22** Categorical Economic Policy Uncertainties and Tail Risk in Energy Markets: A Connectedness Analysis  
*Xiaoli L. Etienne, University of Idaho; Isarin Durongkadej, Georgia College and State University; Alexandre Scarciuffolo, West Virginia University*
- M23** Avoidance Behavior During Tropical Cyclones  
*Pei Jyun Lu, Michigan State University; Mark Skidmore, Michigan State University*
- M24** Using Extreme Value Theory to Improve Knowledge and Decision Making of Low Probability Events.  
*Gerald H. Van Tassell, University of Nebraska-Lincoln; Cory G. Walters, University of Nebraska-Lincoln; Richard K. Preston, Preston Farms; Mindy L. Mallory, Purdue University*

## Behavioral and Institutional Economics - Poster Session

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- M25** The Complexity of the Decision-Making Process: Impacts of Key Priorities, Knowledge and Information Sources on Active Purchase of Food Labels  
*Danielle Ufer, USDA Economic Research Service; David L. Ortega, Michigan State University*
- M26** How Does Information Avoidance Determine the Effect of Information on Consumer Willingness to Pay: A Case Study on Genetically Modified and Gene Edited Crops  
*Corissa Marson, University of Minnesota; Marie Abbey, University of Minnesota; Chengyan Yue, University of Minnesota; Alan Smith, University of Minnesota; Carrie Stowers, University of Minnesota*
- M27** Irrigator Endowment Effects Vs. Non-Pecuniary Benefits: Water Market Experiments in Washington State  
*Joseph Cook, Washington State University; Suhina Deol, Washington State University*



- M28** Prices Vs. Taxes: Evidence from Household Fuel Consumption in India  
*Sanjukta Mitra*, Iowa State University; *Sandip K. Agarwal*, Indian Institute of Science Education and Research
- M29** Social Learning Or Herd Behavior? —Evidence from A Behavioral Experiment on Emerging Genetically Modified Food in China  
*Jintao Zhan*, Nanjing Agricultural University; *Qiqi Chen*, Texas A&M University

## **Environmental Economics and Policy - Poster Session**

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- T31** What Drives Battery Electric Vehicle Adoption? Willingness to Pay to Reduce Emissions Through Vehicle Choice  
*Christina C. Gore*, National Institute of Standards and Technology; *Andre Carrel*, The Ohio State University; *Elena G. Irwin*, The Ohio State University
- T32** Revisiting Land Use Efficiency in Brazilian Amazon: Accounting for Short-run and Long-run Efficiency  
*João Augusto Barcellos Lins*, Federal University of Viçosa (UFV); *Marcelo Dias Paes Ferreira*, Universidade Federal De Viçosa; *Felipe De Figueiredo Silva*, Clemson University; *Erica Basilio Tavares Ramos*, Universidade Federal De Goiás; *Lindomar P. Daniel*, Universidade Do Estado De Mato Grosso
- T33** The Impact of Climate Change on Canadian Agriculture: A Parcel Level Ricardian Analysis  
*Christopher Kimmerer*, University of Guelph; *Nicholas Bannon*, University of Guelph; *B. James Deaton Jr.*, University of Guelph
- T34** Adoption Analysis of Edge-of-field Treatment Wetlands in the Corn-Soy Belt of the U.S.: Application of TOA-MD and SIMPLE Model Coupling  
*Srabashi Ray*, Purdue University
- T35** Improving Ecosystem Services from U.S. Agriculture: Yield Reserve Vs. Land Retirement  
*Chenyang Hu*, Virginia Tech; *Darrell J. Bosch*, Virginia Tech; *Wei Zhang*, Virginia Tech
- T36** Heterogenous Impact of Climate Change on China's Agriculture Green Total Factor Productivity  
*Yi Li*, University of Florida
- T37** Climate-Smart Agriculture and Food Security: Cross-Country Evidence from West Africa  
*Martin Paul Tabe-Ojong Jr.*, IFPRI; *Dossou Ghislain Boris Aihounton*, Department of Food and Resource Economics; *Jourdain C. Lokossou*, University of Laval
- T38** An Analysis of Optimal Converting Time for Fossil Fuel Subsidies  
*Miseok Kim*, Seoul National University; *Do-il Yoo*, Seoul National University
- T39** Current and Future Drivers of Food Insecurity in California's Central Valley  
*Alexandra Hays*, North Carolina State University; *Justin S. Baker*, North Carolina State University
- T40** Climatic Effects and U.S. Agricultural Productivity: Evidence and Prediction from Crop Yield and Total Factor Productivity  
*Ruixin Yang*, George Mason University; *Sun Ling Wang*, USDA-Economic Research Service; *Qian Liu*, George Mason University; *Mengfei Xin*, George Mason University
- T41** An Integrated Assessment Framework to Evaluate Conservation Practices' Environmental and Economic Benefits: A Case for Three Central Iowa Watersheds.  
*Yongjie Ji*, Iowa State University and CARD; *Tássia Mattos Brighenti*, Iowa State University; *Philip W. Gassman*, Iowa State University
- T42** Refining Payments for Practice Changes on Agricultural Land: Lessons for GHG Abatement  
*David Mansfield*, Clemson University; *Mani Rouhi Rad*, Texas A&M University; *Anastasia W. Thayer*, Clemson University; *Dale Manning*, Colorado State University



- T43** **Realized and Elicited Cooperation Under Water Scarcity: Evidence from a Field Experiment in Tanzania**  
*Charlotte J. Aubrac, McGill University; Aurelie P. Harou, McGill University; Soumya Balasubramanya, The World Bank; Christopher Magomba, Sokoine University of Agriculture; Kathryn Vasilaky, Cal Poly - San Luis Obispo*
- T44** **Markup Dispersion, Industry Coverage, and the Cost of Environmental Regulation**  
*Haoyang Li, Shanghai University of Finance and Economics; Nan Wu, Central University of Finance and Economics; Jinhua Zhao, Cornell University*
- T45** **Towards the Assessment of Climate Change Policies Through a General Equilibrium Model: An Application to Uruguay**  
*Juan Francisco Rosas, Universidad ORT Uruguay; Luis Miguel Galindo, UNAM*
- T46** **How Have Renewable Portfolio Standards Affected Bioelectricity Generation? Evidence from Diff-in-Diff Analysis**  
*Shiyue Yao, North Carolina State University; Justin Larson, RTI International; Justin S. Baker, North Carolina State University; Sara B. Ohrel, U.S. Environmental Protection Agency; John Steller, U.S. Environmental Protection Agency; Alison Bean De Hernandez, RTI International*
- T47** **Do Storm Emergency Alerts Save Lives?**  
*Wentian Jiang, University of Georgia; Mateusz J. Filipski, UGA*
- T48** **The Impact of Water Quality Monitoring Network on County-Level Agricultural Development in China**  
*Ding Li, Southwestern University of Finance and Economics; Ziran Li, Southwestern University of Finance and Economics; Chenxi Yu, Sichuan Normal University*
- T49** **Flood Risk Shocks, Flood Insurance, and Migration**  
*Keliang Xiao, University of Illinois at Urbana Champaign*
- T50** **FARC Ceasefire and Drinking Water Quality in Colombia**  
*Adriana Castillo-Castillo, University of Minnesota*
- T51** **U.S. Herbicide Use, Regulatory Changes, and Climate-Smart Practice Adoption Among U.S. Corn and Soybean Producers**  
*Laura L. Dodson, USDA Economic Research Service; Fengxia Dong, USDA-Economic Research Service; Rebecca L. Nemec Boehm, USDA, Office of the Chief Economist; Cameron Douglass, USDA Office of the Chief Economist; Brianna Henry, USDA; Ryan Olver, USDA Economic Research Service; Michelle Ranville, USDA*
- T52** **Excludability Information and Free-Riding in Stated and Real Charitable Donations**  
*Juyoung Yoo, Louisiana State University; Jerrod Penn, Louisiana State University; Maria Bampasidou, Louisiana State University; Wuyang Hu, The Ohio State University*
- T53** **Rules Versus Discretion in the Management of Environmental Systems: Evidence from the Operation of USACE Dams**  
*William Ottenheimer, Washington State University; Michael P. Brady, Washington State University; Jonathan K. Yoder, Washington State University; Kirti Rajagopalan, Washington State University*
- T54** **Optimal Palm Oil Cultivation: Accounting for the Risk of Ebola Spillover in Africa**  
*Pit Jongwattanakul, University of Georgia*
- T55** **Land Tenure Security and the Adoption of Conservation Agriculture in China**  
*Ling Yao, University of Minnesota*
- T56** **Agricultural Biological GHG Emissions: Policy Approaches to Tackle the Next Hurdle in Reducing Global GHG Emissions**  
*Sue E. Greenhalgh, Landcare Research; Utkur Djanibekov, Agroscope; Darran Austin, Ministry for Primary Industries, New Zealand; Jamie Ash, Office of Energy and Climate Change, NSW; Matthew Newman, Ministry for Primary Industries, New Zealand; Julia Hoddinott, Ministry for Primary Industries, New Zealand; Koohyar Khatami, Ministry for Primary Industries, New Zealand*
- T57** **Climate Change and Adaptation: Evidence from Heat Tolerance Rice Varieties in Japan**  
*Kenichi Kuroiwa, University of Georgia; Kentaro Kawasaki, The University of Tokyo*





- T58** **Dust and Food Security: Some Evidence from the Dust Belt in Asia**  
*Omid Karami, Purdue University; Heidar Gholizadeh, University of Zanjan; Mohammad Hossein Zoghipourb, University of Zanjan*
- T59** **Carbon Taxes on Animal Products in the United States – Emissions, Revenue, and Welfare**  
*Beatrice Robson, University of Georgia; Chen Zhen, University of Georgia*
- T60** **In Battle Against Invasive Species, Can Treatment Be Worse Than Disease?**  
*Kimberly S. Rollins, University of Connecticut; Muhammad Umer Zahid, University of Connecticut*
- T61** **Valuing Recreational Saltwater Fishing in Florida’s Nature Coast Using a Travel Cost Method**  
*Roberto F. Koeneke, University of Florida; Christa D. Court, University of Florida; Kelly A. Grogan, University of Florida; Olesya Savchenko, University of Florida*
- T62** **The Effects of Unilateral Or Bilateral GHG Policy of U.S.A. and E.U. on Agricultural Trade**  
*Sunghwi Woo, University of Missouri; Wyatt Thompson, University of Missouri*
- T63** **Effects of Demand for Plant-Based Meat Substitutes on Environmental Outcomes**  
*Jacob S. Schmiess, Purdue University; Jayson L. Lusk, Purdue University; Adriana M. Valcu-Lisman, USDA-Economic Research Service; LaPorchia A. Collins, USDA-Economic Research Service*
- T64** **Is Biomass Co-Firing a Means to End Or Extend Coal-Based Electricity Production in the U.S.? Evidence from a Choice Experiment**  
*Harikrishnan Santhosh, University of Georgia; Greg Colson, University of Georgia; Jeffrey D. Mullen, University of Georgia*
- T65** **Cover Cropping and Yield Variability**  
*Bryan Pratt, USDA-Economic Research Service; Daniel Szmurlo, USDA-Economic Research Service & Resource and Rural Economics Division; Andrew B. Rosenberg, USDA-Economic Research Service*
- T66** **Agriculture and Arsenic: Can Over Extraction of Groundwater Make us Sick?**  
*Natasha Jha, Cornell University*
- T67** **Hog Production and Surface Water Quality: Evidence from the Foot-and-Mouth Disease Outbreak in Taiwan**  
*Feng-An Yang, National Taiwan University; Chen-Ti Chen, Cornell University*
- T68** **An Agroeconomic Review of the IPCC Sixth Assessment Report (AR6) Scenario Database**  
*Xin Zhao, Joint Global Change Research Institute, PNNL; Anton C. Yang, Purdue University*

## **Experimental Economics - Poster Session**

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- M30** **The Impact of Smart Subsidies on Agricultural Production: Innovative Evidence from Argentina Using Survey and Remote Sensing Data**  
*Maja Schling Martin, Inter-American Development Bank; Nicolas Pazos Navarro, Inter-American Development Bank*
- M31** **Human-Pets Bond**  
*Peilu Zhang, Cornell University; Clinton L. Neill, American Veterinary Medical Association*
- M32** **Bargaining With Promises in the Workplace**  
*Peilu Zhang, Cornell University; Marco A. Palma, Texas A&M University*
- M33** **Do Messengers Matter in Conservation Practice Adoptions? Evidence from a Farmer Information Treatment**  
*Xiaolan Wan, Iowa State University; Hao Sun, Iowa State University; Jacqueline Comito, Iowa State University; Wendong Zhang, Cornell University*
- M34** **How Information and Messengers Affect Farmers’ Cover Crop Adoption. A Field Experiment**  
*Bahman Pourtaherian, University of Guelph; Tongzhe Li, University of Guelph*



- M35** An Experimental Economics Approach to Valuing Land Prices  
*Long Gao, Texas Tech University; Donna McCallister, Texas Tech University; Ryan Blake Williams, Texas Tech University*
- M36** Risk Attitude and Preferences for Conservation Technologies and Practices  
*Hyunjung Kim, University of Guelph; Tongzhe Li, University of Guelph*
- M37** Labor Market Discrimination in Bangladesh: Experimental Evidence from the Job Market of College Graduates  
*Sibbir Ahmad, Michigan State University; Songqing Jin, Michigan State University; Veronique Theriault, Michigan State University; Klaus Deininger, The World Bank*

## Food and Agricultural Marketing - Poster Session

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- T69** Farm Milk Pricing and Seller Market Power in the U.S. Dairy Industry  
*Yuliya Bolotova, Iowa State University*
- T70** Destination Categories, Store Choice, and Beer Distribution Laws  
*Anna Malinovskaya, Cornell University; Timothy J. Richards, Arizona State University; Bradley J. Rickard, Cornell University*
- T71** Nudging Chinese Consumers to Adopt Sustainable Milk Consumption: How Should Information Be Provided?  
*Qihui Chen, China Agricultural University; Hongsha Wang, China Agricultural University; Yue Hu, China Agricultural University*
- T72** Price Premia of Non-GMO Certified Products in the United States  
*Shuoli Zhao, University of Kentucky; Qingxiao Li, Louisiana State University; Yawotse Noye, University of Georgia; Yuqing Zheng, University of Kentucky*
- T73** Demand for Plant-Based Meat and Cultivated Meat: Evidence from a Large Sample of U.S. Buyers  
*Hanbin Lee, University of California, Davis; Daniel A. Sumner, University of California, Davis*
- T74** Comparison of Preferences for Cell-Cultured Product in the U.S., China and South Korea: An Investigation of Labeling Effects  
*Yizhou Hua, Purdue University; Hong Holly Wang, Purdue University; Jayson L. Lusk, Purdue University*
- T75** Non-Convergence of Futures and Cash Prices in Hog Markets  
*Kyoungin Choe, North Carolina State University; Barry K. Goodwin, North Carolina State University*
- T76** Implications of Livestream Food Product Promotion for Business-to-Consumer E-Commerce Platform Sales  
*Hung-Hao Chang, National Taiwan University; Chad D. Meyerhoefer, Lehigh University; National Bureau of Economic Research*
- T77** Consumer Demand for Innovative Healthy Snack in the U.S.  
*Laxmi D. Adhikari, Purdue University; Hong Holly Wang, Purdue University; Yizhou Hua, Purdue University; Yifei Wang, Purdue University*
- T78** Who Gets a To-Go Box After Eating Out?  
*Samuel J. Francis, Clemson University; Felipe De Figueiredo Silva, Clemson University; Michael Vassalos, Clemson University; Joan Ureta, Clemson University*
- T79** Estimating Willingness to Pay for Kale With Organic and Local Labels  
*George Strickland, Clemson University; Felipe De Figueiredo Silva, Clemson University; Michael Vassalos, Clemson University; Joan Ureta, Clemson University*
- T80** Cannabis Price Movements Across Distinct State Markets  
*Hanbin Lee, University of California, Davis; Daniel A. Sumner, University of California, Davis; Joel M. Tansey, University of Illinois at Urbana-Champaign*
- T81** Cattle Rancher Demand for Climate-Resilient Genetic Traits: The Case of Limangus Cattle in Argentina  
*Victor E. Funes Leal, University of Illinois at Urbana-Champaign; Nicolas Gatti, Smithsonian Institution/Cornell University; Ignacio Benito Amaro, INTA*



- T82** **An Analysis of Price Linkages in Construction Material Markets Using A Bayesian Additive Vector Autoregressive Tree Model**  
*Yifei Zhang, North Carolina State University; Barry K. Goodwin, North Carolina State University*
- T83** **Economic Effects of the Introduction and Expansion of Plant-based Milk on the Consumption of Dairy Milk Products**  
*Sangwon Lee, University of California, Davis; Daniel A. Sumner, University of California, Davis*
- T84** **Weather, Wine and Prices**  
*Botir B. Okhunjanov, Denison University; Jill J. McCluskey, Washington State University*
- T85** **The Influence of Information on Consumer Beliefs and Preferences for Ground Beef**  
*Bailey A. Samper, Texas Tech University; Andrew Crocker, Texas Tech University; Ryan Blake Williams, Texas Tech University*
- T86** **What Causes the Profits of Food Companies to Increase During an Inflation Period?**  
*Tian Xia, Kansas State University; Xianghong Li, Kansas State University*
- T87** **An Application of Causal Inference in the Role of Cold Storage Stocks, Capacity and Meat Prices in the Presence of Global Shocks to the U.S. Agricultural and Food Distribution Supply Chain**  
*Hannah Hawkins, Texas A&M University; Senarath Dharmasena, Texas A&M University*
- T88** **Shifting Food Lifestyle Patterns Among Food Consumers, 2020-2022**  
*Faith O. Aiya, University of Florida; Lijun Chen, University of Florida; Lisa A. House, University of Florida; Kimberly L. Morgan, University of Florida*
- T89** **Urbanization As a Driver of Changing Food Demand Structure and Subsistence Consumption**  
*Vardges Hovhannisyán, University of Wyoming*
- T90** **An Empirical Examination of Rural Market Characteristics and Performance in Zambia.**  
*Patrese Anderson, University of California, Santa Barbara; Kathy Baylis, University of California, Santa Barbara; Tom Evans, University of Arizona; Marshaun Jesse Montgomery, University of Illinois at Urbana-Champaign*
- T91** **Consumer Evaluation of Organic, Local and CEA-Grown Leaf Lettuce**  
*Elena Krasovskaia, Cornell University; Miguel I. Gomez, Cornell University*
- T92** **The Effect of Information About a Complex Agricultural Supply Chain on Consumers: The Case of Beef Demand in Mexico**  
*Manuel Garcia, Texas Tech University; Carlos E. Carpio, Texas Tech University; Michael Darren Hudson, Texas Tech University; Tullaya Boonsaeng, Texas Tech University; Chenggang Wang, Texas Tech University; Qi Kang, Texas Tech University*
- T93** **Firm Size and Employment Growth in Food Retailing**  
*Metin Çakir, University of Minnesota; Ana Melissa M. Perez Castaño, University of Minnesota; Eliana Zeballos, USDA - Economic Research Service*
- T94** **Loss Aversion and Reference Prices in Consumer Demand for Meat**  
*Glynn T. Tonsor, Kansas State University*
- T95** **A Double Perspective Non-parametric Efficiency Analysis to Maximize the Value of Feeder Cattle Sales**  
*Samuel D. Zapata, Texas A&M University; David P. Anderson, Texas A&M University; Pancho Abello, Texas A&M University; Marco A. Palma, Texas A&M University*
- T96** **Retail Price Premia for Organic Milk**  
*Metin Çakir, University of Minnesota; Timothy Beatty, University of California, Davis; Qingxiao Li, Louisiana State University; Timothy A. Park, USDA-Economic Research Service*

## **Food Safety, Nutrition, and Policy - Poster Session**

- M38** **Compiling Food Balance Sheet Using Detailed FAO Supply Utilization Accounting Data to Improve the Understanding and Modeling of the Food System**  
*Xin Zhao, Joint Global Change Research Institute, PNNL; Maksym Chepeliev, Center for Global Trade Analysis, Purdue University; Page Kyle, PNNL; Praliti Patel, PNNL; Marshall Wise, Joint Global Change Research Institute*



- M39** **Between a Rock and a Hard Place: Food Waste Or Overeating**  
*Haoran Yang, The Sapienza University of Rome; Wuyang Hu, The Ohio State University*
- M40** **Designing Price Policies to Achieve a Healthy and Sustainable Diet**  
*Grace Melo, Texas A&M University; Siun Lee, Texas A&M University*
- M41** **Can Information Improve Visual Attention and Attribute Attendance to Sugar Content? Evidence from an Incentivized Beverage Choice Experiment (Abstract)**  
*Xuan Wei, University of Florida; Brandon R. McFadden, University of Arkansas; Hayk Khachatryan, University of Florida*
- M42** **Economic Evaluation of Nutrition Education Interventions - A Biomarker-Based Approach**  
*Andrea Leschewski, South Dakota State University; Steven Pierce, Michigan State University; Annie Roe, University of Idaho*
- M43** **The Effect of Social Network on Food Security**  
*Andres Silva, Universidad Central de Chile; Maria Sactic, Universidad Central De Chile*
- M44** **Young Generations' Perception Toward Organic Vegetables: A Comparative Cross-Regional Perspective in Vietnam**  
*Thi Trang Thanh Nguyen, National Chung Hsing University; Chifumi Takagi, National Chung Hsing University; Hai Ngo, Vietnam National University of Agriculture; Man-Keun Kim, Utah State University*
- M45** **Designing a Better Carbon Label for Sustainable Food Consumption: Insights from Milk Consumers from China's First-tier Cities**  
*Hongsha Wang, China Agricultural University; Qihui Chen, China Agricultural University; Chen Zhu, China Agricultural University; Yue Hu, China Agricultural University*
- M46** **Effects of Direct Grain Subsidies on Food Consumption of Rural Residents in China**  
*Wenyan Xu, China Agriculture University; Qiran Zhao, China Agricultural University; Shenggen Fan, China Agricultural University; Chen Zhu, China Agricultural University*
- M47** **How do Consumers Decide Whether to Discard Food Products? A Best-Worst Scaling Approach.**  
*Christina Maria Neubig, Technical University of Munich; Corinna Hempel, Technical University Munich; Jutta Roosen, Technical University of Munich*
- M48** **Effects of Food Stamp Program on Adolescent Non-Cognitive Skills**  
*Kiseok Shin, Virginia Tech; Yoonjung Lee, Virginia Tech*
- M49** **Convergence in Food Demand: Do Middle-Income Countries Follow High-Income Countries?**  
*Wanqi Liang, Huazhong Agricultural University; Pathmanathan Sivashankar, Auburn University; Wenying Li, Auburn University*
- M50** **Food Consumption During the Pandemic and Implications for Diet Quality**  
*Abigail M. Okrent, USDA-Economic Research Service; Eliana Zeballos, USDA - Economic Research Service*
- M51** **Accounting for Consumer Heterogeneity in Food Addiction**  
*Joshua J. Reed, The Pennsylvania State University; Emily Y. Wang, UMass, Amherst; Edward C. Jaenicke, The Pennsylvania State University; Yizao Liu, The Pennsylvania State University; Eliana Zeballos, USDA - Economic Research Service*
- M52** **The Key Role of Labor Market in Assessing Future Climate Impact on Global Agriculture**  
*Di Sheng, Joint Global Change Research Institute; Xin Zhao, Joint Global Change Research Institute, PNNL; Stephanie Waldhoff, Joint Global Change Research Institute, PNNL; James Edmonds, Joint Global Change Research Institute, PNNL; Pralit Patel, PNNL; Siwa Msangi, USDA; Brian O'neill, Joint Global Change Research Institute; Claudia Tebaldi, Joint Global Change Research Institute, PNNL*
- M53** **Addressing Soil Quality Data Gaps With Imputation: Evidence from Ethiopia and Uganda**  
*Hai-Anh Dang, The World Bank; Gero Carleto, The World Bank; Sydney Gourlay, The World Bank; Kseniya Abanokova, The World Bank*



- M54** **Consumer Preferences and WTP for Value-Added Attributes of Whole-Grain Foods: Evidence from China**  
*Xin Zhang, China Agricultural University; Jingjing Wang, China Agricultural University; Shenggen Fan, China Agricultural University*
- M55** **The War in Ukraine Disrupts Agricultural Value Chains, But Trade Policy Measures Can Mitigate the Impacts**  
*Maksym Chepeliev, Center for Global Trade Analysis, Purdue University; Maryla Maliszewska, The World Bank; Maria Filipa Seara E Pereira, Purdue University*
- M56** **Links Between Household Agricultural Production Diversity, Food Price Volatility and Household Food Security: Evidence from Malawi**  
*Mrignyani Sehgal, University of Illinois at Urbana-Champaign*
- M57** **Fairness Expectations and Breastfeeding Duration in Rural Communities**  
*Mariah D. Ehmke, USDA-Economic Research Service*
- M58** **Willingness to Pay for Meal Kits Among Low-Income Households**  
*Ting Cao, University of Florida; Lisa A. House, University of Florida; Kerri-Ann Chambers, University of Florida; Anne Mathews, University of Florida; Karla Shelnett, University of Florida*
- M59** **The Effects of Weather on Nutrients Consumption**  
*Jung Hoon Han, North Carolina State University; Xiaoyong Zheng, North Carolina State University; Lei Pan, North Carolina State University; Ezgi Cengiz, North Carolina State University; Christian Rojas, University of Massachusetts-Amherst*

## **Health Economics - Poster Session**

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- M60** **Commodity Price Shocks and Rural Mortality**  
*Marc F. Bellemare, University of Minnesota; Joleen C. Hadrich, University of Minnesota; Jhih-Yun Liu, University of Minnesota*
- M61** **Associations Between Syringe Services Program Laws, Human Immunodeficiency Virus, and Opioid Overdose During the COVID-19 Pandemic**  
*Christopher Dunphy, Centers for Disease Control; Hannah Jackson, Centers for Disease Control; Mary Blain Grist, Centers for Disease Control; Xinyi Jiang, Centers for Disease Control; Likang Xu, Centers for Disease Control; Sheila Salvant-Valentine, Centers for Disease Control; Gery Guy, Centers for Disease Control*
- M62** **Health Coverage and Farmworker Productivity**  
*Zachariah Rutledge, Michigan State University; Timothy J. Richards, Arizona State University*
- M63** **Chronic Disease Diagnosis and Smoking Among Chinese Males—Is There a Moderating Role for Family Members?**  
*Qihui Chen, China Agricultural University; Yue Hu, China Agricultural University; Haochi Zheng, University of North Dakota*
- M64** **Dietary Inequality in China: Trends and Determinants**  
*Siqi Gao, Auburn University; Wenying Li, Auburn University; Joel Cuffey, Auburn University; Gucheng Li, Huazhong Agricultural University*
- M65** **Drivers of Bushmeat Hunting in Areas of High Risk of Infectious Disease Spillover**  
*Prachi Jhamb, University of Georgia; Susana Ferreira, University of Georgia*
- M66** **Empirical Estimation of Non-Linearities in the Shared Drivers of Malnutrition in Peri-Urban India**  
*Anjali Katiganere Purushotham, Georg-August University, Göttingen*
- M67** **Economic Impact of Point-of-Care Diagnostic Testing on Disease Response for an African Swine Fever Outbreak in the United States**  
*Ashley Railey, Oklahoma State University; David Adamson, University of Adelaide; Jonathan Rushton, University of Liverpool*
- M68** **Are Disease Equilibria Equivalent to Health Equilibria?**  
*Golam Saroore Shakil, Washington State University; Takesure Tozoooneyi, Kansas State University; Dustin L. Pendell, Kansas State University; Thomas L. Marsh, Washington State University*



## Household and Labor Economics - Poster Session

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- T100** Relaxing Migration Restrictions and Labor Reallocation  
*Binlei Gong, Zhejiang University; Peinan Hu, Zhejiang University; Songqing Jin, Michigan State University; Lingran Yuan, Zhejiang University*
- T101** Context Matters: Oil Palm Production and Women's Dietary Diversity in the Tropical Forest of Cameroon  
*Martin Paul Tabe-Ojong Jr., IFPRI*
- T102** Do Double Majors Face Less Risk? An Analysis of Human Capital Diversification  
*Andrew S. Hanks, The Ohio State University; Shengjun Jiang, Wuhan University; Xuechao Qian, Stanford University; Bo Wang, Nankai University; Bruce Weinberg, The Ohio State University*
- T103** Gender Differences in the Effect of High School Peers on College Major Choices: Evidence from Chile  
*Rocio Valdebenito, University of Illinois at Urbana-Champaign*
- T104** Conflict and Agricultural Performance: Evidence from Myanmar  
*Myat Thida Win, Michigan State University; Mywish K. Maredia, Michigan State University; Songqing Jin, Michigan State University*
- T105** Rural-to-Urban Migration (RUM) and Women's Work in Nigerian Households  
*Jubril O. Animashaun, University of Ilorin; Lotanna E. Emediegwu, Manchester Metropolitan University*
- T97** Employment Impact of the Minimum Wage Under Oligopsony Power  
*Luis Seoane Estruel, University of Connecticut; Rigoberto A. Lopez, University of Connecticut*
- T98** Maternal Migration and Children Development in Rural China: A Causal Analysis Using Propensity Score Matching (PSM) and Bayesian Additive Regression Trees (BART)  
*Yujuan Gao, University of Florida; Yue Ma, Stanford University*
- T99** Looking for Boy-Girl Discrimination Using Time-Use Data  
*Aditi Kadam, University of Georgia; Jeffrey H. Dorfman, University of Georgia*

## International Development: Households, Technology, and Environment - Poster Session

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- T106** Can Behavioural Profiling Explain Smallholder Farmers' Adoption Decisions of Conservation Agriculture-Based Sustainable Intensification Technologies?  
*Renato A. Villano, University of New England; Maria Fay Rola-Rubzen, University of Western Australia; Jon Marx Sarmiento, University of Western Australia; Roy Murray-Prior, University of Western Australia; Md. Farid Uddin Khan, Rajshahi University; Mamunur Rashid, RDRS Bangladesh; Krishna Prasad Timsina, Nepal Agricultural Research Council; Kalyan K. Das, Uttar Banga Krishi Vishwavidyalaya; Arunava Ghosh, Uttar Banga Krishi Vishwavidyalaya*
- T107** Got Milk? Exploring the Link Between Women's Decision-Making in Dairy Production and Welfare Investments in Boys vs. Girls  
*Meike Wollni, University of Göttingen; Jessie Lin, USDA-Economic Research Service*
- T108** The Impact of Demand-Driven Seasonal Agricultural Laborers on Local Communities  
*Ze Zhang, University of California, Davis*
- T109** Does Mechanization Improve the Regional Economy? A County-Level Empirical Assessment from China  
*Baoling Zou, Southwest University; Ashok K. Mishra, Arizona State University*
- T110** Socio-Psychological Factors Affecting the Adoption of Sustainable Land Management Practices in Erosion-Prone Areas of South-Eastern Nigeria  
*Cynthia N. Olumba, Newcastle University; Guy Garrod, Newcastle University; Francisco Areal, University of Reading*



- T111** Assessing the Effectiveness of Climate-Smart Agriculture Rice Varieties in Flood-Prone Southern Bangladesh  
*Naveen Abedin, Virginia Tech*
- T112** Tenure Insecurity and the Continuum of Documentation in a Matrilineal Customary System  
*Helder Zavale, Eduardo Mondlane University; Laura Meinen-Dick, Villanova University; Hosaena Ghebru, IFPRI*
- T113** Impacts of People's Risk Preference on Their Willingness to Adopt New Post-Harvest Storage Technology  
*Jingru Jia, University of Illinois at Urbana-Champaign; Paul E. McNamara, University of Illinois at Urbana-Champaign*
- T114** Armed Conflict, COVID-19 Pandemic, and Food Security: Evidence from Iraq  
*Kwabena Krah, Loyola University Chicago; Lokendra Phadera, The World Bank*
- T115** The Effects of Disability on Households' Economic Livelihoods and Chronic Poverty in Vietnam  
*Sean F. Kiely, The University of California, Davis; Kristin Kiesel, University of California, Davis*
- T116** Can Honey Production Serve as a Coping Strategy for Coffee Producers? Evidence from Mexico  
*Grant X. Storer, University of San Francisco; Chris M. Boyd, Towson University; Stephen M. Pitts, University of Minnesota*
- T117** A New Global Dataset of Agricultural Energy Consumption by Country, Fuel, and End-Use  
*Kelly Casper, PNNL - JGCRI; Steven J. Smith, Joint Global Change Research Institute, Pacific Northwest National Lab; Ying Zhang, Joint Global Change Research Institute, Pacific Northwest National Lab*
- T118** The Impact of Telescoping Bias on Income and Price Elasticities  
*Bailey Peterson-Wilhelm, Kansas State University*
- T119** Livelihood Strategies and Food Insecurity During COVID-19 Pandemic Among Wetland Communities: Evidence from a Rural Household Panel in Lagging Region  
*Mohammad Mainul Hoque, Dyson School of Applied Economics and Management; Mohammad Yunus, Bangladesh Institute of Development Studies*
- T120** Rural Off-Farm Employment Opportunities and Nutrient Availability in Ghana: Country Wide Evidence  
*Evelyn Osei, University of Arkansas; Yacob A. Zereyesus, USDA - Economic Research Service; Francis Tsiboe, USDA - Economic Research Service; Ralph Armah, University of Ghana; Antoinette Tsiboe-Darko, University of Ghana; George Domfe, University of Ghana*
- T121** Temperature and Intimate Partner Violence: Evidence from Sub-Saharan Africa  
*Tarana Chauhan, Cornell University*
- T122** On Measuring Climate Impact on Fertilizer Adoption: Evidence from Nigeria  
*Godwin K. Nutsugah, Michigan State University*
- T123** The Effects of the Broadband Village Pilot Program on Rural Household Income in China?  
*Dan Liu, Nanjing Agricultural University; Han Yan, Nanjing Agricultural University; Yanhong Jin, Rutgers University; Jia You, Nanjing Agricultural University*
- T124** Technology Adaptation to Climate Change: Evidence from German Seed Growers  
*Maria K. Gerullis, Cornell University; Ariel Ortiz-Bobea, Cornell University; Thomas Heckelej, University of Bonn*

## **International Development: Trade, Markets, and Policy - Poster Session**

- M69** The Contribution of Workers, Workplaces, and Sorting to Wage Inequality in Mexico  
*Jorge Pérez Pérez, Banco De México; José Nuño-Ledesma, University of Guelph*
- M70** One of Our Own: The Role of Identity and Political Connections in Public Employment  
*Sudhir K. Singh, Michigan State University*



- M71** Consumption Effects of Increasing the Availability of a Nutritious Food in the Marketplace: Experimental Evidence from Kenya  
*Mywish K. Maredia, Michigan State University; Eduardo Nakasone, Michigan State University; Maria Porter, University of Arizona*
- M72** The Impacts of Violent Conflicts on Food Insecurity in Sub-Saharan Africa  
*James M. Muriuki, Texas Tech University; Michael Darren Hudson, Texas Tech University; Syed Fuad, Texas Tech University*
- M73** Green Gold: Avocado Production and Conflict in Mexico  
*Juan C. Angulo, University of Maryland*
- M74** An Empirical Examination of the Relationship Between Urbanization and Economic Growth in China  
*Vardges Hovhannisyan, University of Wyoming; Serhat Asci, California State University, Fresno*
- M75** Impact of Distant Water Fleet Fishing on Seafood Market and Livelihoods in Developing Countries: A Study of the South China Sea  
*Soojung Ahn, University of Connecticut*
- M76** The Potential for a Service-Facing Structural Transformation in Tanzania  
*Ellen McCullough, University of Georgia*
- M77** Determinants of Private Agricultural R&D: Evidence from India  
*Anwar Naseem, University of Central Asia; Latha Nagarajan, Rutgers University; Carl E. Pray, Rutgers University*
- M78** Welfare and Trade Effects of Brazil's Temporary Import Ban on Robusta Coffee  
*Hanifi Otgun, University of Nebraska-Lincoln; John C. Beghin, University of Nebraska Lincoln; Fernando Maximiliano, StoneX FCStone Do Brasil LTDA*
- M79** Sourcing Strategies of Nigerian Maize Traders in the Face of Multiple Risks  
*Daye Kwon, Michigan State University; Thomas A. Reardon, Michigan State University; Saweda Liverpool-Tasie, Michigan State University*

## International Trade - Poster Session

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- M80** COVID Impact on the U.S. Poultry Trade  
*Dipanwita Barai, Washington State University; Jeff Luckstead, Washington State University; Thomas L. Marsh, Washington State University*
- M81** Will China Remain a Major Corn Importer?  
*Bryan Lohmar, California Polytechnic State University*
- M82** Trade Creation and Trade Diversion Effects Under IPEF  
*Byung Min Soon, Chungnam National University; Sumin Cho, Chungnam National University*
- M83** The Impact of TBT and SPS Measures on Chinese Firms' Decisions: From the Perspectives of Export Intensity and Market Scope  
*Zhongmin Xie, Agricultural Trade Promotion Center, MARA, China*
- M84** The Impact of China's Agricultural Imports on Origin Countries' Export Potential  
*Binod Khanal, Texas A&M Agrilife Research; Sunil P. Dhoubhadel, Prairie View A&M University*
- M85** Impact of U.S. Imports of Fresh Blueberries on Domestic Producers  
*Ajit Khanal, University of Georgia; Gopinath Munisamy, University of Georgia*
- M86** Impact of Extreme Weather Events on the U.S. Interstate Trade and Food Supply Chain  
*Hyungsun Yim, University of Illinois at Urbana-Champaign*





- M87** The Impact of Private Standards on Agri-Food Firms' Export Performance: Evidence from China  
*Siqi Zhang, Huazhong University of Science and Technology*
- M88** The Impact of Increased Ocean Freight Rates on Soybean Marketing Margins Between the United States and China During the Post-COVID Era  
*Jungkeon Jo, University Of Georgia; William Secor, University of Georgia*
- M89** Preferential Trading and Global Agri-Food Value Chains  
*Sandro Steinbach, North Dakota State University; Dongjin Kim, University of Connecticut*
- M90** Foreign Trade Shocks and U.S. Farm Income  
*Dongjin Kim, University of Connecticut; Sandro Steinbach, North Dakota State University*
- M91** The Impact of the U.S.-Farm Bills on the U.S.'s Peanuts Trade  
*Gertrude Nakakeeto, Abraham Baldwin Agricultural College; Audrey L. Morgan, Abraham Baldwin Agricultural College; Marian Harrell, Abraham Baldwin Agricultural College*

## **Production Economics - Poster Session**

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- M100** What Factors Affect the Decision to Become a Food Processor and to Specialize in Cowpea Processing? Evidence from Senegal  
*Hanna Carlson, Michigan State University; Veronique Theriault, Michigan State University; Aliou Diagne, Africa Rice Center, Cotonou*
- M101** Allocative & Technical Efficiency of Female-Owned Prepared Millet SMEs in Urban Senegal  
*Hanna Carlson, Michigan State University; Thomas A. Reardon, Michigan State University; Veronique Theriault, Michigan State University; Fatou Faye, ISRA-BAME; Xavier Beogo, ISRA-BAME*
- M92** The Effect of Invasive Pests on Food Security: An Understudied Effect of Climate Change  
*Protensia Hadunka, University of Illinois at Urbana-Champaign; Kathy Baylis, University of California, Santa Barbara*
- M93** Genetically Engineered Crops: The Cure Or the Poison?  
*Jayson F. Beckman, USDA-Economic Research Service; Shawn Arita, USDA-Office of the Chief Economist; Maros Ivanic, USDA-Economic Research Service*
- M94** Organic Corn Production and Use on Organic Dairy Farms Compared to Conventional Farms: Evidence from 2021  
*Richard F. Nehring, USDA-Economic Research Service; Samuel M. Bailey, USDA-Economic Research Service; Daniel Bonin, Economic Research Service; Carolyn Dimitri, New York University*
- M95** Farmers' Knowledge and Farm Productivity in Rural Thailand and Vietnam  
*Huong Jaretzky, Leibniz University Hannover; Sabine Liebenehm, University of Saskatchewan; Hermann Waibel, University of Hannover*
- M96** Quantifying the Economic Impacts of Electric Car Production  
*Yue Ke, Argonne National Laboratory; Matthew R. Sloggy, Pacific Southwest Research Station, USDA Forest Service*
- M97** A Positive Math Programming Approach to Analyze Extensive and Intensive Margin Changes Under Different Phosphorus Policies  
*Sampriti Sarkar, Michigan State University; Frank Lupi, Michigan State University*
- M98** Impact of High Fertilizer Prices and Farmers' Adaptation Strategies  
*Tong Wang, South Dakota State University; Hailong Jin, South Dakota State University; Heidi L. Sieverding, South Dakota School of Mines & Technology*
- M99** Capturing the Critical Agri-Environmental Linkages of Livestock in the U.S.: The Example of the REAP Model  
*Siwa M. Msangi, USDA-Economic Research Service; Nicholas Gallagher, University of Wisconsin - Madison; Karen Maguire, USDA-Economic Research Service; Marcel P. Aillery, USDA-Economic Research Service*



## Productivity Analysis and Emerging Technologies - Poster Session

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- M102** Food Retail Configuration and Markups  
*Donghoon Kim, University of Connecticut; Rigoberto A. Lopez, University of Connecticut; Sandro Steinbach, North Dakota State University*
- M103** Coordination and Efficiency of Drainage Investments in the U.S. Corn Belt  
*Rwit Chakravorty, Iowa State University; David A. Hennessy, Iowa State University; Hongli Feng, Iowa State University*
- M104** Industrial Robots and Firm Productivity: Evidence from China  
*Yanhong Jin, Rutgers University; Daiyue Li, Rutgers, the State University of New Jersey; Mingwang Cheng, Tongji University, Shanghai, P.R. China*
- M105** The Impacts of Private Sector R&D on U.S. Agricultural Productivity Growth  
*Matthew S. Clancy, Iowa State University; Sun Ling Wang, USDA-Economic Research Service*
- M106** Curing Citrus Greening: Implications Along the Supply Chain  
*Samiul Haque, University of Florida, GCREC; AbdelMalek Hammami, University of Florida- GCREC; Zhengfei Guan, University of Florida*
- M107** Economics of Regional-Scale Production of Short Rotation Woody Crops on Marginal Cropland  
*Lyubov A. Kurkalova, North Carolina A&T State University; Solomon Ghezehei, North Carolina State University*
- M108** Insecticide Use, Resistance, and the Billion-Dollar Bug: Evidence from Farmers' Management of U.S. Corn Fields  
*Jonathan McFadden, USDA-Economic Research Service; Seth J. Wechsler, USDA, Office of the Chief Economist; Samuel E. Williamson, University of Maryland*

## Research Methods/Econometrics/Stats - Poster Session

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- M109** Heterogenous Patterns of Crop Yield Growth Stagnation Across U.S. Counties in the Next Decade  
*Noé J. Nava, USDA*
- M110** Dynamics of Global Agricultural Productivity and Democratic Governance Structure: Looking At Effects and Directions to Sustainable Food Supply  
*Job Nda Nmadu, Federal University of Technology, Minna; Usman S. Mohammed, Federal University of Technology, Minna, Nigeria; Yebosoko T. Nmadu, Nigerian Defence Academy, Kaduna; Halima Sallawu, Federal University of Technology, Minna, Nigeria; Sokoyami B. Nmadu, Ajayi Crowther University, Oyo, Nigeria; Mohammed A. Ndanitsa, Federal University of Technology, Minna, Nigeria; Ezekiel S. Yisa, Federal University of Technology, Minna, Nigeria; Kpotun M. Baba, Federal University of Technology, Minna, Nigeria; Taiwo T. Amos, Federal University of Technology, Akure, Nigeria; Abigail J.*
- M111** A Spatial Model of Crop Yield Distributions  
*Xiaotian Liu, Huazhong Agricultural University; Yong Bao, Purdue University; Xuewen Yu, Fudan University*
- M112** Dynamic Patterns of Price Transmission in Single Index Arbitrage Models  
*Kyoungin Choe, North Carolina State University; Barry K. Goodwin, North Carolina State University*
- M113** Improving Macroeconomic Predictions for the ERS Baseline Projections  
*Wendy S. Zeng, USDA; James D. Davis, University of Georgia*
- M114** Predicting Food Prices Using Data from Consumer Surveys and Consumer Behaviors in Online Spaces  
*Jisung Jo, Korea Maritime Institute; Jayson L. Lusk, Purdue University; Michael K. Adjemian, University of Georgia; Nicole Olynk Widmar, Purdue University; Jinho Jung, Purdue University*
- M115** The Impact of the Regional Greenhouse Gas Initiative in Maryland: An Application of the Synthetic Control Method  
*Trevor D. Johnson, Texas Tech University; Donna McCallister, Texas Tech University*



**M116 Tax Incidence on Oklahoma Cropland and Pasture Rental Rates**

*Katherine L. Welch, Oklahoma State University; Dayton M. Lambert, Oklahoma State University; Notie H. Lansford Jr., Oklahoma State University*

## **Resource (Renewable and Nonrenewable) Economics and Policy - Poster Session**

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**M117 How Much are Producers Willing to Pay for Ecosystem Services that Promote Soil Health?**

*Kaouter Essakkat, University of Nebraska-Lincoln; Karina Schoengold, University of Nebraska - Lincoln*

**M118 Disentangling Drivers of Rangeland Degradation in Mongolia: Herd Size Versus Climate Over 1985-2022**

*Avralt-Od Purevjav, University of Bern; Tumenkhusel Avirmed, Cornell University; Steven W. Wilcox, Utah State University; Christopher B. Barrett, Cornell University*

**M119 Differential Impacts Across Farmers of a Deforestation Ban in Eastern Paraguay**

*Marieke Fenton, University of California, Davis*

**M120 Payments from State Conservation Programs and Cover Crop Adoption**

*Lyazzat Sanat, North Carolina State University*

**M121 Community and Industrial Forest Concessions: Are They Effective At Reducing Forest Loss and Does FSC Certification Play a Role?**

*Corinne F. Bocci, Saint Joseph's University; Lea Fortmann, University of Puget Sound*

**M122 Soil Carbon Costs of Crop Choices: The Case of 6 Major Crops in the US**

*Yining Wu, The Ohio State University; Eric Davis, USDA-ERS; Brent Sohngen, The Ohio State University*

**M123 The Importance of Utilization to the Efficacy of Climate Mitigation Through Increased Fuel Reduction Harvesting in Forests of the Northern Intermountain West**

*Zoey Roberts, University of Idaho; Gregory Latta, University of Idaho; Justin S. Baker, North Carolina State University; Olakunle E. Sodiya Sr., West Virginia University*

**M124 Deforestation and Agriculture**

*Madhusudan Bhattarai, IFPRI; Krishna P. Paudel, USDA-Economic Research Service; Archana Timsina, North Carolina State University*

**M125 Optimal Management of Legacy Phosphorus**

*Chanheung Cho, North Carolina State University; Zachary S. Brown, North Carolina State University; Luke Gatiboni, North Carolina State University; Justin S. Baker, North Carolina State University*

**M126 Canadian Hunters' Behavior Change Preferences Based on Perceived Risk of Zoonotic Infection from Wood Bison.**

*David C. Hall, University of Calgary*

**M127 Land Use Change Implications of Power-to-Liquid Fuels**

*Farzad Taheripour, Purdue University; Maksym Chepeliev, Center for Global Trade Analysis, Purdue University; Omid Karami, Purdue University; Ehsanreza Sajedinia, Purdue University*

**M128 Effects of Land Conversion Costs on Modeling Land Use in CGE Models**

*Ehsanreza Sajedinia, Purdue University*

**M129 Global Food Security Implications of Fertilizer Price Growth and Supply Restrictions**

*Ziqian Gong, North Carolina State University; Justin S. Baker, North Carolina State University*

**M130 The Impact of COVID-19 on Recreational Fishing in Long Island Sound**

*Zhenshan Chen, Virginia Tech; Pengfei Liu, University of Rhode Island; Eric Schultz, University of Connecticut; Jacob Kasper, University of Connecticut*



## Rural/Community Development - Poster Session

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- T125** Rural Community Determinants of Veterinary Practice Longevity  
*Courtney L. Bir, Oklahoma State University; Andrew J. Van Leuven, Oklahoma State University; Rosslyn Biggs, Oklahoma State University*
- T126** Investigating Sea Level Rise and Saltwater Intrusion on Harvest Acreage in North Carolina  
*Greg Ferraro, North Carolina State University*
- T127** Digital Village Construction and Rural Income Structure: Evidence from Peking University Digital Village Index and China Household Finance Survey  
*Xiang Cao, Sichuan University; Chuanjiang Yu, Sichuan University; Jiayang Yu, Sichuan University; Nan Jia, Sichuan University*
- T128** An Examination of Persistent Poverty and Heirs' Property in the United States  
*Steven C. Turner, Mississippi State University; Ardian Harri, Mississippi State University; Cassandra Johnson Gaither, U.S. Forest Service; Rebecca Dobbs, U.S. Forest Service*
- T130** Nonlinear Off-Farm Migration Behavior in China  
*Minkyong Ko, Virginia Tech*
- T131** Spillover Effect in the EdTech Intervention: Experimental Evidence from a Primary School in Rural China  
*Yujuan Gao, University of Florida; Yue Ma, Stanford University; Conner C. Mullally, University of Florida*
- T132** Spatial Growth and Convergence in Indian Agriculture  
*Balaji Sedithippa Janarthanan, National Institute of Agricultural Economics and Policy Research; Gopinath Munisamy, University of Georgia*
- T133** Investigating Agricultural Involvement of the Ultra-Poor Rural Households in North-Central Nigeria and How Conditional Cash Transfers Scheme Has Impacted Their Welfare  
*Ezekiel T. Ajibade, University of Ilorin; Olunmi A. Omatesho, University of Ilorin; Toyin B. Ajibade, University of Ilorin*

## Teaching, Communication, and Extension - Poster Session

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- T134** How COVID-19 Has Changed Consumer Purchasing Patterns in the Horticultural Industry  
*Qiqi Chen, Texas A&M University; Yu Yvette Zhang, Texas A&M University; Pulkit Marwah, Texas A&M University; Yijie Hou, Texas A&M University; Mengmeng Gu, Colorado State University*
- T135** New Approaches to College Student Time Allocation  
*Valerie Kilders, Purdue University; Logan L. Britton, Kansas State University*
- T136** Factors Differentiating Small Scale Farm Operators' Reliance on Risk Planning Information Using Signal Detection for Decisions Under Uncertainty.  
*Jennifer L. Clark, University of Florida*



## Types of Concurrent Sessions

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### Invited Paper

Invited Paper sessions are selected by the AAEA President and two additional Board members based on proposals submitted by AAEA members. These sessions are chosen because they may appeal to a broad spectrum of meeting attendees, further the development and dissemination of systematic knowledge in the field of agricultural and applied economics, and/or generate meaningful conversation. Invited Paper sessions generally involve 2-3 paper presentations and ample opportunity for discussion. Invited papers may also be published in the proceedings issue of the *American Journal of Agricultural Economics*

### Invited Case Study Papers

Invited Case Study Paper sessions are selected by members of the Case Study Committee based on proposals submitted by AAEA members. Papers presented in this session demonstrate how the application of economics principles to decision making in the public and/or private sectors lead to better decisions. Papers presented in this session may be published in the proceedings issue of the *American Journal of Agricultural Economics*.

### Organized Symposia

Organized Symposia are selected by the AAEA President based on proposals submitted by AAEA members. They highlight work-in-progress and involve discussions of policy issues, research methods, emerging research results, teaching or outreach topics, and issues in professional organization. The format of a session may involve paper presentations, panel discussions, debates, roundtable meetings, or other formats.

### Selected Presentations

The term "Selected Presentations" refers collectively to Selected Papers and Selected Posters.

Selected Paper Sessions include up to four paper presentations. Each paper presentation is given 20 minutes; 15 minutes to present and five minutes for discussion.

### Selected Presentation Lightning Session

Lightning sessions includes 8 Selected Paper Presentations. Each presenter will have 9-10 minutes to present and discuss their paper.

### Track Sessions

Tracks are a set of multiple sessions submitted by AAEA Sections, scheduled throughout the meeting and devoted to a common interest area or topic. Sessions can be organized by a single Section or by multiple Sections to cover a wider range of topics



## **Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM**

### **Roadway Extortion Markets in West Africa: Analytical and Data Challenges from 1988-2022**

Salon 12 (M2)

#### **Organized Symposium**

The objective is to share successes, challenges and interests in data systems, analytical methods and policy priorities related to uses of micro-data about extortion along roadways in West Africa. This underlying illicit market is both a symptom and driver of fragility challenges for the 2019 African Continental Free Trade Area as well as the regional ten year United States Strategy to Prevent Conflict and Promote Stability launched in 2022. Within sub-themes of data, methods, and policy all participants are invited to concisely summarize their key research question, analytical approaches and micro-data issues for a group discussion within these issue clusters. Participants with on-going research, related teaching or those newly interested in these unique data, methods or policy applications will benefit from the discussion.

Organizer: Glenn R. Rogers, University of Wisconsin-Madison

Moderators: Jeffrey Cochrane, University of Maryland-College Park; Jeremy D. Foltz, University of Wisconsin; Ziad Hamoui, Borderless Alliance - Ghana

In Short Introductions Each Thematic Discussion Facilitator Will Frame Their Sub-Theme Topic and Provide Context for Participants' Engagement in the Discussion.

Glenn R. Rogers

### **Crop Insurance Influences on Farm Sustainability and Climate-resilient Management**

Catholic University (M1)

#### **Track Session-Applied Risk Analysis**

Agricultural insurance has been a leading policy mechanism of U.S. producer support for decades, and recent research continues to uncover its nuanced effects across many farm-management dimensions. Here we focus on important aspects related to financial sustainability and climate-resilient management practices. The first presentation combines county-level data and causal inference techniques to estimate the (potentially) mitigating role of crop insurance coverage for the effect of climate on farmland values. The second presentation leverages farm-level data to quantify the influence of crop insurance availability on the adoption of cover crops. The third presentation is also in the insurance - cover crop nexus but instead focuses on lost cost ratios and premium rates. The final presentation addresses how participation in a crop insurance program influences agricultural loan delinquencies and includes an empirical application leveraging county-level panel data for U.S. Midwestern corn production.

Organizer: Jesse Tack, Kansas State University

Moderator: Jesse Tack, Kansas State University

#### **Crop Insurance and Adverse Weather Effects on Farmland Rental Rates**

Jisang Yu, Kansas State University; Jesse Tack, Kansas State University

#### **Crop Insurance Participation and Cover Crop Use: Evidence from ARMS Survey Data**

Dylan Turner, USDA-Economic Research Service; Francis Tsiboe, USDA-Economic Research Service; Roderick M. Rejesus, North Carolina State University; Maria S. Bowman, USDA-Economic Research Service

#### **Impact of Cover Crop Adoption on Loss Cost Ratios and Crop Insurance Premiums**

Rajan Dhakal, Louisiana State University; Lawson Connor, University of Arkansas

#### **The Effect of Crop Insurance on Agricultural Loan Delinquencies**

Le Chen, North Carolina State University; Roderick M. Rejesus, North Carolina State University; Daemyung Lee, North Carolina State University; Serkan Aglasan, North Carolina State University; Robert Dinterman, The Ohio State University; Lawson Connor, University of Arkansas



## **Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM**

### **Challenges Facing Minority and Women Farmers**

*Tulip (2nd Floor)*

#### **Track Session-Agricultural Finance & Management and Committee on Women in Agricultural Economics**

The persistent presence of discrimination in various socio-economic settings still garners meaningful conversation in policymaking and research (Crockett, 2021). McDonald et al. (2022) report that Socially Disadvantaged Farmers and Ranchers face often have lower output value and less operators, fewer total assets, lower current ratios, and higher debt-to-asset ratios. These factors in turn can limit access to credit, posing challenges in terms of business (or farm) growth and productivity. In this session we discuss the challenges facing minority and women farmers with a focus on: 1) Agricultural credit usage by women and minority farmers; 2) Linkages between diversity in the leadership of a major lending institutions and credit access to female and minority farmers; 3) linkages between credit access and productivity; 4) Drivers of female producer's credit access.

Organizer: Ana Claudia Sant'Anna, West Virginia University

#### **Minority and Women Farmer Use of Agricultural Credit by Farm Value of Production, Acreage, Age, and Beginning Farmer Status**

*Bruce L. Ahrendsen, University of Arkansas; Ronald L. Rainey, University of Arkansas*

#### **Examining the Relationship Between Increased Diversity in the Leadership of Farm Credit Institutions and Credit Access to Female and Minority Farmers**

*Ana Claudia Sant'Anna, West Virginia University; Kevin N. Kim, Mississippi State University; Iryna Demko, Progressive*

#### **Female Farmers' Productivity and Access to Credit**

*Valentina M. Hartarska, Auburn University; Denis A. Nadolnyak, Auburn University*

#### **Supply- and Demand-Side Drivers of Female Farm Operators' Credit Access**

*Margaret C. Jodlowski, The Ohio State University*

### **Consumer Preferences and Decision Making in Food Markets**

*Dupont Circle (M3)*

#### **Selected Presentation**

This session covers different topics related to the food industry, including consumer valuations and demand shock issues.

Moderator: Jie Li, Cornell University

#### **Consumer Valuation of Aquaculture Product Attribute Improvements by Technologically-Enabled Innovation: The Case of Maine Oysters**

*Qiujie Zheng, University of Maine; Nadège Levallet, University of Maine; Wei Yang, University of Arkansas; Christopher Davis, Maine Aquaculture Innovation Center*

#### **Retailers' Product Assortment Under Demand Shocks: Evidence from the U.S. Yogurt Market During the Great Recession**

*Meilin Ma, Purdue University; Jayson L. Lusk, Purdue University; Fei Qin, Purdue University*

#### **Investigating How Political Messaging Matters for Food in the United States**

*Jianhui Liu, University of Florida; Bachir Kassar, University of Florida; John Lai, University of Florida*

#### **Exploring Consumer Preferences and the Willingness to Pay for Domestically Produced Finfish in the Kingdom of Saudi Arabia**

*Miguel I. Gomez, Cornell University; Broom Mohammed, Almabdioon Center for Studies And Research; Jie Li, Cornell University; Petjon Ballco, Centro de Investigación y Tecnología Agroalimentaria (CITA) Aragon - Spain; Yanan Zhang, Cornell University*



## **Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM**

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### **Agricultural Credit**

Howard University (M1)

#### **Selected Presentation**

The session will look at various aspects of agricultural credit participation and lending institutions.

Moderator: Anil K. Giri, USDA-Economic Research Service

#### **Scope Economies from Rural and Urban Microfinance Services**

Valentina M. Hartarska, Auburn University; **Jingfang Zhang**, Alcorn State University; Denis A. Nadolnyak, Auburn University

#### **The Relationship Between Branch Location, Bank Size and Borrower Race on the Price of FSA Guaranteed Loans**

Sarah A. Atkinson, USDA FPAC BC; Charles B. Dodson, USDA Farm Service Agency

#### **Valuing Trust: An Application to Agricultural Lending**

Jody S. Herchenbach, University of Nebraska at Kearney; Claire Trudo, CoBank; Brian C. Briggeman, Kansas State University; Jason S. Bergtold, Kansas State University

#### **U.S. Farm Households' Participation in Lending and Financial Markets**

Anil K. Giri, USDA-Economic Research Service; Dipak Subedi, USDA-Economic Research Service; Hari Regmi, Purdue University; Monika Ghimire, Oklahoma State University

### **Agriculture and the Environment**

Salon 15 (M2)

#### **Selected Presentation-Lightning Session**

This session gathers studies that explore the intersection of agricultural production and related environmental issues.

Moderator: Andrew C. Swanson, University of California, Davis

#### **Do Nutrient Management Practices Change Nitrogen Outcomes? Evidence from California's Central Valley**

Molly Sears, Michigan State University; James M. Sears, Michigan State University

#### **Understanding Neighborhood Conforming Peer Effects on Household Lawncare Practices: Implications for Nonpoint Nutrient Reductions**

David Newburn, University of Maryland; Robert J. Johnston, Clark University; Haoluan Wang, University of Miami; Colin Polsky, Florida Atlantic University; Tom Ndebele, Clark University

#### **Valuation of Crop Diversity Benefits on Water Quality**

Yunsun Park, Mississippi State University; Seong Yun, Mississippi State University; Matthew G. Interis, Mississippi State University

#### **Economic and Environmental Impacts of a Regional Payments for Ecosystem Service Program**

Peibin Hou, Renmin University of China; Huangang Qiu, Renmin University of China; Jialing Yu, Renmin University of China

#### **The Environmental Impacts and Economic Viability of Grass-Fed Beef Production in the Northeastern U.S.**

Houtian Ge, Cornell University; Miguel I. Gomez, Cornell University; Christian Peters, USDA-Agricultural Research Service

#### **The Pass-Through of California's Low Carbon Fuel Standard Subsidies to Midwestern Grain and By-Product Markets**

Andrew C. Swanson, University of California, Davis





## **Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM**

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### **Environment and Health**

*Chinatown (M3)*

#### **Selected Presentation**

This session brings together studies that evaluate the effect of the environment and regulation on individual health and safety. Papers in this session span an array of contexts including vehicle safety, PFAS, and forest protection.

Moderator: Julio Aguirre, Universidad Del Pacifico (Lima, Perú)

**Do Safety Inspections Improve Safety? Evidence from the Roadside Inspection Program for Commercial Vehicles**

*Yuanning Liang, Peking University*

**Per-and Polyfluoroalkyl Substances (PFAS) in Drinking Water: Evaluation of Exposure in the U.S.**

*Nabin Babu Khanal, West Virginia Univerity; Levan Elbakidze, West Virginia University*

**Health Impacts of Forest Protection in Indonesia**

*Kelly Yuexuan Wu, University of California, Davis*

**Less Deforestation, More Savings, and More Health: Spillovers from the Implementation of National Commitments to Mitigate Climate Change by 2050**

*Julio Aguirre, Universidad Del Pacifico (Lima, Perú); Daniel G. De La Torre Ugarte, University of Tennessee; Tun-Hsiang E. Yu, University of Tennessee; Roberto Accinelli, Universidad Peruana Cayetano Heredia; Eduardo Rojas, University of Barcelona; Marcos Paucar, Universidad Del Pacifico; Carlos Heros, Universidad Del Pacifico*



## **Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM**

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### **Production Challenges: Marketing Management, Input Prices, Disease, and Environmental Sustainability**

*Capitol Hill (M3)*

#### **Selected Presentation-Lightning Session**

This lightning session brings together a collection of studies that investigate a variety of factors that can influence both supply and demand side of the market. The studies dive deep into the insights of those factors to explore how they become the challenges or opportunities for agricultural production and end-product marketing activities.

Moderator: Luca Rigotti, Cornell University

#### **Deconstructing Urea Fertilizer Price Spikes: The Role of Supply-Demand, Speculation, and Energy Prices**

*Zhepeng Hu, China Agricultural University; Joshua Huang, USDA-Economic Research Service; Lei Yan, Yale University; Jinghong Yuan, China Agricultural University*

#### **Scaling-Up U.S. Grass-Fed Beef Market: Implications for Beef and Crop Markets, Land Uses and Greenhouse Gas Emissions**

*Lingyi Li, Texas A&M University*

#### **Media Impact on Consumer Purchasing Decisions: Evidence from Avian Influenza**

*Karin Wu, University of Wisconsin-Madison*

#### **Disentangling Demand and Supply Shocks in the World Nitrogen Markets**

*Fengxia Dong, USDA-Economic Research Service; Shawn Arita, USDA-Office of the Chief Economist; Jayson F. Beckman, USDA-Economic Research Service*

#### **Potential Economic Welfare Impacts of the African Swine Fever Virus on the U.S. Pork Supply Chain**

*Takesure Tozoneyi, Kansas State University; Dustin L. Pendell, Kansas State University; Jonathan Rushton, University of Liverpool*

#### **The Value of Cannabis Potency and Other Product Characteristics: A Hedonic Price Approach**

*Robin Goldstein, University of California, Davis; Daniel A. Sumner, University of California, Davis; Jarrett Hart, University of California, Davis; Ian Xu, University of California, Davis*

#### **Switching Costs in the U.S. Seed Industry: Technology Adoption and Welfare Impacts**

*Jinjing Luo, Iowa State University; GianCarlo Moschini, Iowa State University; Edward Perry, Kansas State University*

#### **Improving Farmers Market Returns for Meat Vendors Using Point-of-Sale Customer Data**

*Luca Rigotti, Cornell University; Matthew N. LeRoux, Cornell University; Todd M. Schmit, Cornell University*



## **Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM**

### **Nutritional Outcomes in Developing Countries**

*LeDroit Park (M3)*

#### **Selected Presentation-Lightning Session**

Papers in this session address nutritional outcomes in developing countries across Asia and Africa. The studies focus on malnutrition, children's nutrition, women's employment and empowerment, government policies to promote nutrition and food security, and nutritionally improved rice.

Moderator: Didier Y. Alia, University of Washington

#### **The Effects of Inequality on the Triple Burden of Malnutrition – Are There Synergies Or Trade-Offs?**

*Thomas Kopp, University of Siegen; Markus K. Nabernegg, University of Siegen*

#### **Addressing Child Anemia in India – The Case for Convergence of Nutritional and Sanitation Interventions**

*Soumya Gupta, Cornell University; Payal Seth, Tata- Cornell Institute for Agriculture and Nutrition; Prabhu L. Pingali, Cornell University*

#### **Local Unexpected Food Price Volatility Affects Children's Nutrition in Sub-Saharan Africa**

*Catharina Latka, University of California, Santa Barbara; Kathy Baylis, University of California, Santa Barbara; Tess Lallemand; Katie McMahon, University of California, Santa Barbara; Patrese Anderson, University of California, Santa Barbara; Thomas Heckeley, University of Bonn*

#### **Women's Employment in High-Value Agriculture and Child Nutrition: Evidence from the Ethiopian Cut-Flower Industry**

*Astewale Bimr Melaku, Georg-August-Universität Göttingen; Bethelhem Legesse Debela, Georg-August-Universität Göttingen; Matin Qaim, University of Bonn*

#### **The Extent of Women's Empowerment Across Rural-Urban Areas and Wealth Categories and Its Role in Nutrition Outcomes of Family Members in Uttar Pradesh, India**

*Venkatesh Palani Samy, Indian Agriocultural Research Institute; Sangeetha Vellaichamy, ICAR-Indian Agricultural Research Institute; Jha Girish Kumar, Division of Agricultural Economics, Indian Agricultural Research Institute; Nitin Sharma, ICAR-Indian Agricultural Research Institute; Suresh C. Babu, IFPRI*

#### **Can Food-Security Policies in Tunisia Be Better Targeted?**

*Mohamed Amine Hedoui, University of Nebraska-Lincoln; John C. Beghin, University of Nebraska-Lincoln*

#### **Effects of the Food Friendly Program on Diet Quality in Bangladesh: A Nonparametric, Multidimensional Approach**

*Sanchita Chakrovorty, University of Georgia; Travis A. Smith, University of Georgia*

#### **Assessing the Benefits of Multi-Biofortified Rice in Nigeria and Ghana Using the Disability-Adjusted Life Years Framework**

*Didier Y. Alia, University of Washington; Peter Agamile, University of Washington; Micah McFeely, University of Washington; C. Leigh Anderson, University of Washington*

### **Household and Labor Economics - Paper Session 1**

*Mount Vernon Square (M3)*

#### **Selected Presentation**

This session gathers labor economics studies

Moderator: Farzana Shirin, University of Illinois at Urbana-Champaign

#### **The Dust Bowl and Occupational Persistence in Agriculture**

*Jhih-Yun Liu, University of Minnesota*

#### **COVID-19, Truck Rates, and Trucking Shortages**

*Timothy J. Richards, Arizona State University; Zachariah Rutledge, Michigan State University*

#### **Does Teacher Salary Support Improve Student Learning Outcomes**

*Farzana Shirin, University of Illinois at Urbana-Champaign*



## **Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM**

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### **International Development: Agricultural Extension, Mechanization, and Infrastructure**

Shaw (M3)

#### **Selected Presentation**

Moderator: Zhan Wang, Purdue University

Effectiveness of a Remote Agricultural Extension Program in Times of Crisis: Experimental Evidence from Myanmar

*Mywish K. Maredia, Michigan State University; Joseph C. Goeb, Michigan State University; Caitlin L. Herrington, Michigan State University; A Myint Zu, IFPRI*

Agricultural Mechanization and Structural Transformation in China

*Ling Yao, University of Minnesota*

Transport Infrastructure Expansion in Brazil: A Win-Win Strategy for Agriculture Competitiveness and Environment?

*Zhan Wang, Purdue University; Geraldo Martha, Embrapa Agricultural Informatics; Jing Liu, Purdue University; Cicero De Lima, Sao Paulo School of Economics; Thomas W. Hertel, Purdue University*

### **Exploring Trade and Agriculture: Quantitative Modeling and Policy Implications**

Union Station (M3)

#### **Selected Presentation-Lightning Session**

The session will cover topics such as the cost of trade in genetically engineered processed animal products, the impact of trade openness on global grain supply, the role of firm heterogeneity and horizontal foreign direct investment in the gravity trade model, the relationship between inflation, trade deficits, and exchange rate fluctuations in agriculture and the general economy, the effects of policies on global palm oil trade, the influence of domestic subsidies on bilateral trade of agricultural commodities, and technical barriers to trade.

Moderator: Magdana Kondaridze, Washington State University

Policy Effects on Global Palm Oil Trade: A Gravity Model Approach

*Shweta Adhikari, University of Georgia; Dikshit Poudel, University of Georgia; Gopinath Munisamy, University of Georgia*

Inflation and Trade Deficits in Agriculture and the General Economy: The Role (or Lack Thereof) of Exchange Rate Fluctuations

*Wendy S. Zeng, USDA; William A. Johnson, USDA*

Investigating Integration and Exchange Rate Pass-Through in World Maize Markets Using Inferential LASSO Methods

*Hongqiang Yan, North Carolina State University; Barry K. Goodwin, North Carolina State University; Mehmet Caner, North Carolina State University*

Does Trade Openness Affect Global Grain Supply Response?

*Yacob A. Zerayesus, USDA-Economic Research Service; Jennifer Y. Kee, USDA-Economic Research Service; Stephen N. Morgan, USDA-Economic Research Service; Nathan P. Hendricks, Kansas State University; Michael E. Johnson, USDA-Economic Research Service; Lila Cardell, USDA-Economic Research Service; Noé J. Nava, USDA; Jeremy L. Jelliffe, USDA-Economic Research Service; Walter Ac-Pangan, Kansas State University*

Computing the Cost of U.S. Trade in GE Processed Animal Products: A Gravity Modeling Approach

*Osei-Agyeman Yeboah, North Carolina A&T State University; Saleem Shaik, USDA-Economic Research Service; Stephen A. Ofosu, North Carolina A&T State University*

Production Subsidies and Agricultural Trade

*Magdana Kondaridze, Washington State University; Jeff Luckstead, Washington State University*



## Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM

### Policy and Climate Change Impacts on Resources Management

Judiciary Square (M3)

#### Selected Presentation-Lightning Session

This session examines the impacts of policies and climate change on different types of resource management, including water, energy, and land resources.

Moderator: Na Zhang, University of Illinois at Urbana-Champaign

**The Environmental Impacts of Microfinance: An Empirical Study of Index-Based Livestock Insurance and East African Rangelands**  
*Steven W. Wilcox, Utah State University; Christopher B. Barrett, Cornell University; Nathaniel Jensen, ILRI; Ying Sun, Cornell University; Patrick Clark, USDA-Agricultural Research Service; Gerardo E. Soto, Universidad Austral De Chile; Njoki Kahiu, University of New Mexico; Francesco P. Fava, Università Degli Studi Di Milano; Benjamin Porter, University of Vermont*

#### Landscape Complexity, Crop Insurance Losses, and Resilience to Extreme Weather Events

*Yuyuan Che, North Carolina State University; Roderick M. Rejesus, North Carolina State University; Serkan Aglasan, North Carolina State University; Emily Burchfield, Emory University*

#### Assessing the Private and Social Benefits of Forest Concessions in the Maya Biosphere Reserve

*Corinne F. Bocci, Saint Joseph's University*

#### Economic Impacts of Weather Modification on Water Resources and Drought: Evidence from California

*Rania Lachhab, Michigan State University*

#### Impacts and Drivers of Discretionary Rental Rate Adjustments in the Conservation Reserve Program

*Wesley M. Zebrowski, Indiana State University*

#### The Impacts of State Policies on Renewable Energy Generation Capacity: A County-Level Spatial Panel Analysis

*Pinky Thomas, West Virginia University; Ritika Khurana, West Virginia University; Xiaoli L. Etienne, University of Idaho; Alan R. Collins, West Virginia State University*

#### Drivers of Cover Crop Adoption in the U.S. Midwest: Peer Effects and Land Ownership

*Na Zhang, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign; Shadi S. Atallah, University of Illinois at Urbana-Champaign; Linghui Wu, University of Illinois at Urbana-Champaign; Qu Zhou, University of Illinois at Urbana-Champaign; Guan Kaiyu, University of Illinois at Urbana-Champaign*

### Invited Case Studies

Salon 14 (M2)

#### Case Studies

Case Studies - Paper Session

Moderator: Carlos O. Trejo-Pech, University of Tennessee at Knoxville

#### Market Power in the U.S. Beef Industry

*Yuliya Bolotova, Iowa State University*

#### Financial Metrics of U.S. Supermarkets and Grocery Stores Before and During the Coronavirus Pandemic

*Carlos O. Trejo-Pech, University of Tennessee at Knoxville; Susan White, University of Maryland*



## **Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM**

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### **Water Policy for a Warming Planet**

*Cherry Blossom (2nd Floor)*

#### **Track Session-Senior Section and Land, Water, & Environmental Economics**

The water situation in the Western U.S. is reaching a crisis point. Lakes Mead and Powell on the Colorado River are close to dead-pool levels requiring major withdrawal reductions, rendering unworkable the compact governing allocations across seven states and Mexico. The California drought has led to idling of nearly 400,000 acres in the Central Valley as surface-water deliveries have been reduced. Increases in groundwater pumping to meet demand are depleting aquifers and leading to land subsidence. Climate change will only exacerbate these problems. Although the West's water woes are a regional problem there are national implications. Details of water shortage in other parts of the world may differ, but the imperative for changes in institutions, technology and infrastructure is a common theme across regional/national boundaries. This session addresses water issues in the Western U.S. and also frames broader discussions about water policy.

Organizer: Neilson C. Conklin, Farm Foundation, Retired

Moderator: Steven Wallander, USDA-Economic Research Service

#### **Setting the Stage**

*Steven Wallander, USDA-Economic Research Service*

#### **Enhancing Supply: The Potential Role of Desalination and Water Recycling**

*David Zilberman, University of California, Berkeley*

#### **Policy Initiatives to Reduce Water Use for Climate Resilience-What Can Be Learned from the American West.**

*Bonnie G. Colby, University of Arizona*

#### **Economic Contributions to Collaborative Modeling and Stakeholder Decision-Making in the Colorado River Basin"**

*Kristiana M. Hansen, University of Wyoming*

### **Teaching Tips from Award-winning Teachers**

*Gallaudet University (M1)*

#### **Track Section-Teaching, Learning, & Communications and Graduate Student Sections**

This session offers the opportunity for AAEA Teaching Award recipients to share their teaching journey and offer tips to putting together a teaching award nomination packet. They will share their approaches, techniques, types of assignments, and philosophy in the classroom. Contributions from the audience in the form of shared experiences, questions, and observations will be a key part of this session.

Organizers: Megan N. Hughes, Purdue University; Na Zuo, University of Arizona

Moderator: Na Zuo, University of Arizona

#### **Listening to Students: Engagement and Improvement**

*Min-Fang Wei, University of Illinois at Urbana-Champaign*

#### **Lessons Learned in the College Classroom**

*Elizabeth A. Yeager, Kansas State University*

#### **A Holistic Approach for Graduate Teaching**

*William E. Nganje, North Dakota State University*

#### **Fostering a Learning Classroom Environment**

*Lonnie Hobbs Jr., Kansas State University*



## **Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM**

### **Structural Change, International Competition, and Environmental Impacts in the Aquaculture Industry**

*George Washington University (M1)*

#### **Track Session-Committee on the Opportunities & Status of Blacks in Agricultural Economics and Agribusiness Economics & Management**

There is currently a strong need to better understand the state of the U.S. aquaculture industry as the number of aquaculture farms dropped 32 percent from 2005 to 2018. Over the same period, the total value of aquaculture farms rose 39 percent. This track session will focus on four separate areas of aquaculture. First, it will examine trends in the structure of industry for the major freshwater (terrestrial) aquaculture species in the U.S. Secondly, the import demand for aquaculture products will be estimated to determine consumer responsiveness to changes in the prices of competing seafood products. Third, consumer demand will be estimated for species of fish and seafood by consumer segments, and if possible, delineate between “farm raised” and “wild caught” modes of production. The final area of interest will be to characterize the impacts of evolving environmental regulations on the organization, international competitiveness, and economic development potential of the U.S. aquaculture sector.

Organizer: Christopher G. Davis, USDA-Economic Research Service

#### **Structure of Industry and Trends in U.S. Aquaculture Industries**

*Jeffrey M. Gillespie, USDA-Economic Research Service; Ganesh Kumar, Mississippi State University*

#### **Trade Potential Within U.S. Aquaculture Industries**

*P. Lynn Kennedy, Louisiana State University; Christopher G. Davis, USDA-Economic Research Service*

#### **Factors Affecting U.S. Consumer Demand for Fish and Seafood**

*Chen Zhen, University of Georgia; Abigail M. Okrent, USDA-Economic Research Service*

#### **Regulations Guiding the U.S. Aquaculture Industries**

*Jonathan Van Senten, Virginia Tech; Carole Engel, Virginia Polytechnic Institute and State University; Robert A. Hrozencik, USDA-Economic Research Service*

### **Washington Policy Outlook**

*Salons 6-10 (M2)*

#### **Track Session-Extension Section**

The policy outlook session will focus on contemporary, federal policy issues affecting agriculture. The presenters will provide insight from their unique perspectives and work for Congress, USDA, and related agencies. The presenters will discuss policy development and implementation addressing current and upcoming policy issues for agriculture as well as the role of economics in the process.

Organizers: Bart L. Fischer, Texas A&M University; Steven L. Klose, Texas A&M University

Moderator: Bart L. Fischer, Texas A&M University

#### **Perspectives from the House Agriculture Committee, Majority**

*Justin R. Benavidez, Texas A&M University*

#### **Perspectives from the House Agriculture Committee, Minority**

*Emily E. Pliscott, House Agriculture Committee*

#### **Perspectives from the Senate Agriculture Committee, Majority**

*Steven Wallander, USDA-Economic Research Service*

#### **Perspectives from the Senate Agriculture Committee, Minority**

*John C. Newton, American Farm Bureau Federation*

#### **Perspectives from USDA**

*Seth D. Meyer, USDA*



## Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM

### Consumer Attitudes Toward State-Grown Promotion Program: Marketing Implications and Prospects

Scarlet Oak (2nd Floor)

#### Track Session-Institutional & Behavioral Economics Section and Food & Agricultural Marketing Policy Section

Consumer demand for local and regional food has been increasing. Many states have capitalized on these trends by developing state-sponsored marketing programs to promote state-grown foods and support the agri-food sector. Nonetheless, consumer awareness and preferences have been mixed. This session focuses on consumer attitude and affinity towards state marketing programs with the objective of better understanding the underlying drivers of consumer preferences. The first presentation will address how out-of-state consumers perceive the Fresh from Florida program and how attitudes toward Florida and its agriculture may influence consumer WTP. The second presentation will discuss the public and private benefits of the Kentucky state program (Kentucky Proud) and its implication for its residents' environment, community, and health. The last presentation will examine the effect of farm distances on the premium associated with the Sweet Grown Alabama marketing program in farmers' markets.

Organizer: Alexandre Magnier, FGCU

Moderator: Alexandre Magnier, FGCU

Discussant: Kimberly L. Morgan, University of Florida

#### Consumer Preference for Out-of-State Marketing Programs: An Application to Fresh from Florida Program.

*Lijun Chen, University of Florida; Bachir Kassas, University of Florida; Alexandre Magnier, FGCU*

#### What do Consumers Perceive from Local Labeling: An Assessment of Public and Private Benefits

*Favour E. Esene, University of Kentucky; Shuoli Zhao, University of Kentucky; Timothy A. Woods, University of Kentucky*

#### Does the Distance-to-Farm Influence Consumer WTP Values for Sweet Grown Alabama Products?

*Wendiam Sawadgo, Auburn University; Joshua M. Duke, Auburn University; Samir Huseynov, Auburn University; Adam N. Rabinowitz, Auburn University*

### Foodborne Illnesses in the U.S. and Globally: What Does it Cost and How Can We Reduce It

Dogwood (2nd Floor)

#### Track Session-Health Economics Section and Food Safety & Nutrition Section

1 in 6 Americans will contract a foodborne illness annually. Foodborne disease ranks just behind air pollution and tuberculosis in global health burden and undermines progress toward reducing under-nutrition. This session focuses on the economic impact of US foodborne illness and the effectiveness of capacity building efforts in developing countries (export and domestic consumption). Sandra Hoffmann presents new U.S. foodborne illness cost estimates that expand current ERS estimates by widening coverage of pathogens and chronic outcomes. Dr. Ahn looks at an important distributional issue, the impact of foodborne illness on U.S. elderly. The US relies heavily on produce imports from developing countries. Dr. Owusu examines the effectiveness of training program on US produce import safety. Vivian Hoffmann focuses on domestic markets in a developing country, Ghana, testing whether capacity building paired with surveillance enable market incentives for safer food.

Organizer: Sandra Hoffmann, USDA-Economic Research Service

#### U.S. Cost of Foodborne Illness Estimates: Enhancing Coverage

*Sandra Hoffmann, USDA-Economic Research Service; Alice White, Colorado State University; Jae-Wan Ahn, USDA Economic Research Service; Brett McQueen, Colorado School of Public Health*

#### Costs of Foodborne Hospitalizations Among the Elderly

*Jae-Wan Ahn, USDA-Economic Research Service; Sandra Hoffmann, USDA-Economic Research Service; Elaine Scallan-Walter, Colorado School of Public Health; Alice White, Colorado State University; Brett McQueen, Colorado School of Public Health*

#### Produce Safety Rule Trainings and Its Effect on Producer Capacity: The Case of the Training-the-Trainer Program in Latin America

*Eric S. Owusu, JIFSAN, University of Maryland; Clare A. Narrod, University of Maryland*

#### Can Voluntary Food Safety Upgrading Plus Surveillance Catalyze Consumer Demand?: Evidence from Ghana

*Vivian Hoffmann, IFPRI; Nicholas Magnan, University of Georgia; Nelson Opoku, University for Development Studies*





## **Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM**

### **New Research Directions on Agri-Food Value Chains**

*Magnolia (2nd Floor)*

#### **Track Session-International Section**

Agri-food value chains often link food producers and food consumers through a series of contracts or transactions between producers and consumers. Yet the bulk of the literature has focused on whether participation in agricultural value chains makes participating farmers better off from an income standpoint (Bellemare and Bloem 2018). This session will feature work that is a radical departure from that old literature by featuring work on the midstream (Ambler and Bloem), on global value chains (Dalheimer et al.), and on the relationship between insurance and agri-food value chains (Majumdar et al.) With these three papers, we expect to draw an audience of people interested in development, agribusiness, and international trade. With Rich Sexton as discussant, we also expect to draw in an audience of people interested in industrial organization.

Organizer: Marc F. Bellemare, University of Minnesota

Discussant: Richard J. Sexton, University of California, Davis

#### **Understanding Financial Needs in the Midstream of Agricultural Value Chains**

*Jeffrey R. Bloem, IFPRI; Kate Ambler, IFPRI*

#### **Agricultural Global Value Chains and Food Price Stability**

*Bernhard Dalheimer, Kiel University; Marc F. Bellemare, University of Minnesota; Sunghun Lim, Louisiana State University*

#### **Price Risk and Farmer Marketing Contract Preferences: Evidence from Indian Onion Farmers**

*Inder Majumdar, University of Illinois at Urbana-Champaign; Joseph Janzen, University of Illinois at Urbana-Champaign; Hope Michelson, University of Illinois at Urbana-Champaign; At Urbana-Champaign; Sudha Narayanan, IFPRI*

### **The Economic Implications of COVID-19 on the Agricultural Supply Chain in Latin America and the Caribbean**

*Silver Linden (2nd Floor)*

#### **Track Session-Latin America Section**

COVID-19 was a public health emergency that tested the entire world. The pandemic had a particularly severe impact on Latin America and the Caribbean (LAC). Their annual GDP fell by 6.9%, the lowest level in over a century. The GDP expanded by almost 6% in 2021; however, various difficulties still exist. For instance, it is thought that about 30% of the jobs that were lost in 2020 did not come back in 2021. Several studies have looked at how the situation has affected various types of households in the region, but little is known about how it has affected the agrifood industry. This session offers a synopsis of four papers that examine the pandemic's impact on agricultural supply chain performance, agrifood industry responses, analyses of public and private supply chain support programs, and analyses of the region's supply chain resilience.

Organizer: Carlos E. Carpio, Texas Tech University

Moderator: Ana R. Rios, Inter-American Development Bank

#### **Impact of COVID-19 Pandemic on the Latin America and Caribbean Agrifood Supply Chain**

*Luis A. Sandoval M, Zamorano University; Ana R. Rios, Inter-American Development Bank*

#### **Responses Toward Innovation in the Agri-Food Systems of Latin America and the Caribbean**

*Maria J. Castillo, ESPOL*

#### **Economic and Social Impacts of COVID-19 and Climate Change on Coffee Sector in the Northern Triangle of Central America**

*Pablo Ruiz, Hanns R. Neumann Stiftung Foundation; Ana R. Rios, Inter-American Development Bank; Claudia Yaniris Muñoz, Hanns R. Neumann Stiftung (HRNS) Central America; Alejandro Roblero, INCAE Business School; Jalima Noguera, INCAE Business School*

#### **Static and Dynamic Economic Resilience Indicators for Agrifood Supply Chains: The COVID-19 Pandemic in Latin America and the Caribbean**

*Manuel García, Texas Tech University; Carlos E. Carpio, Texas Tech University*



## **Concurrent Sessions ★ Monday, 10:00 AM - 11:30 AM**

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### **Recurring Food Crisis: Lessons from History and Implications for the Future**

Salon 13 (M2)

#### **Organized Symposium**

The world has experienced three major food crises since the 1970s—in 1973–74, 2007–8, and 2021–22. In each case, sharp rises in food prices were accompanied (or preceded) by concomitant increases in fertilizer and energy prices. The session will explore the similarities and differences in the policy responses of developing countries and donors, in the context of major structural change—notably, developing countries have become massively more important in production, trade, and stocking policies, relative to developed countries. The session will explore responses of developing countries and donor responses and implications for the future

Moderator: Uma Lele, Institute of Economic Growth

History of Food Crises, Similarities and Differences

*Christopher L. Delgado, Retired*

Lead Agriculture Economist and the Global Lead for Agricultural Policies and Public Expenditures At the Agriculture and Food Global Practice At the World Bank

*Madhur Gautam, The World Bank*

Changing Trade Policy Responses

*William J. Martin, IFPRI*



## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

### **Nutrient Management and the Sustainability of Agriculture**

Salons 6-10 (M2)

#### **Invited Paper**

Widespread and intensive agricultural production is dependent on supplemental synthetic fertilizer to sustain high yields. In the Corn Belt, nutrients lost from agricultural soils are the largest source of nutrient pollution leading to environmental problems such as hypoxia and groundwater contamination. Despite expanded funding opportunities and conservation programs to mitigate these environment stresses, the participation rate and the effectiveness of such programs vary. This proposed session on nutrient management provides novel analyses, updated perspectives and invites discussion on these issues.

Discussant: Jing Liu, Purdue University

#### **Managing Nutrients in the Anthropocene: Integrating Ecological and Socioeconomic Perspectives**

*Xin Zhang, University of Maryland Center for Environmental Science; Tan Zou, University of Maryland Center for Environmental Science*

#### **How Has the Environmental Quality Incentives Program Impacted Water Quality in the U.S. Corn Belt?**

*Ben Gramig, USDA-Economic Research Service; Hsin-Chieh Hsieh, University of Illinois at Urbana-Champaign*

#### **Enrollment Restrictions and the Adoption of Conservation Practices in the U.S. Corn Belt**

*Wendong Zhang, Cornell University; Xiaolan Wan, Iowa State University; Gregory E. Howard, East Carolina University*

### **The Political Economy of Food System Transformation**

Salon 12 (M2)

#### **Organized Symposium**

The purpose of this session is to review key insights about the political economy dynamics of food system transformation with several contributors to a forthcoming edited book volume entitled, *The Political Economy of Food System Transformation: Pathways to Progress in a Polarized World*. Participants will draw on a common framework to elucidate the range of interests, institutions, and power in the food system and touch on a range of contentious food system issues—from biotechnology to repurposing agricultural subsidies—to highlight potential pathways for policy reform.

Organizer: Johan Swinnen, CGIAR & IFPRI (IFPRI)

Moderator: Johan Swinnen, CGIAR & IFPRI (IFPRI)

Panelists: Christopher B. Barrett, Cornell University; William J. Martin, IFPRI; Danielle Resnick, Brookings Institution; Johan Swinnen, CGIAR & IFPRI

### **ERS Data Products: Inputs, Production Processes, Quality Control, and Uses**

Salon 13 (M2)

#### **Organized Symposium**

ERS' Market and Trade Economics Division produces data for more than 70 commodities. This session highlights how they are produced: raw data sources, value added, and technology used in construction and presentation -- and how quality is controlled at a U.S. Government principal statistical agency. Recent data visualization innovations will be demonstrated.

Organizers: Brian D. Adam, USDA Economic Research Service; Jennifer K. Bond, USDA-Economic Research Service; Jerry Cessna, USDA-Economic Research Service; Shida Rastegari Henneberry, USDA-Economic Research Service

Moderator: Brian D. Adam, USDA Economic Research Service

Panelists: Vidalina Abadam, US Department of Agriculture; Molly Burrell; Jerry Cessna, USDA-Economic Research Service; Wilma V. Davis, USDA-Economic Research Service; Jeffrey M. Gillespie, USDA-Economic Research Service; Shida Rastegari Henneberry, USDA-Economic Research Service; Steven M. Ramsey, Economic Research Service; Bryn Swearingen, USDA-Economic Research Service; Angelica S. Williams, USDA-Economic Research Service



## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

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### **Access to Lending and Finance in Rural America**

*Catholic University (M1)*

#### **Track Session-Community & Regional Economics Network and Agricultural Finance & Management**

This session contains paper presentations related to the hurdles faced by prospective borrowers in rural America—business owners, homeowners, and ag producers—as they seek out lenders to fund their respective ventures. Each paper discusses a different aspect of this phenomenon and highlights possible policy implications at stake.

Organizer: Andrew J. Van Leuven, Oklahoma State University

Moderator: Sarah A. Low, University of Illinois at Urbana-Champaign

#### **Locational Determinants of Lending Deserts in the Rural United States**

*Andrew J. Van Leuven, Oklahoma State University; Kelsey L. Conley, USDA-Economic Research Service; Tessa Conroy, University of Wisconsin-Madison; Dayton M. Lambert, Oklahoma State University*

#### **Access to Farm Lending**

*Tia M. McDonald, USDA-Economic Research Service; Noah J. Miller, USDA-Economic Research Service*

#### **Changing Demographics and Mortgage Financing on Navajo Nation: A Panel Data Analysis**

*Haoying Wang, New Mexico Tech*

#### **Causes and Effects of Alternative Financial Services in a Spatial Perspective**

*Ayoung Kim, Mississippi State University; Kevin N. Kim, Mississippi State University*

#### **The Effect of Credit Market Competition on Agricultural Credit Markets and Farmers**

*Jennifer Ifft, Kansas State University; Richard Thakor, UMN Finance; Keer Yang, University of California, Davis Finance*



## Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM

### Human Capital Development in China

*Cherry Blossom (2nd Floor)*

#### Track Session-China Section

Human capital development have always been an important way to escape from middle income trap for developing countries, like China. This session includes eight presentations focusing on the infant mortality, children's health and school performance, and the role of human capital in labor market in China.

Organizer: Yu Yvette Zhang, Texas A&M University

#### Barefoot Doctors and Infant Mortality in China

*Yifan Cheng, Peking University; Songze Li, Peking University; Xiaobing Wang, Peking University*

#### The Effects of Bullying Experience on Child's Academic Performance and Mental Health: Evidence from Rural China

*Jiayang Lyu, Zhejiang University; Songqing Jin, Michigan State University; Chen Ji, Zhejiang University; Huan Wang, Stanford University; Ru Yan, Zhejiang University; Scott D. Rozelle, Stanford University*

#### The Unintended Consequence of School Meals on Childhood Overweight and Obesity: Evidence from a Subsidized Preschool Meal Pilot in China

*Yue Zhan, Tufts University; Kevin Chen, Zhejiang University; Xinghua Liu, Zhejiang University; Chengfang Liu, Peking University; Harold H. Alderman, IFPRI*

#### Availability of Childcare Facilities and Maternal Labor Supply: Evidence from Rural China

*Yun Shen, Zhejiang University; Dorien Emmers, KU Leuven; Scott D. Rozelle, Stanford University; Jiehong Zhou, Zhejiang University*

#### Stay Near Ink, Get Stained Black? Evidence from a Primary School Merger Program in China

*Ru Yan, Zhejiang University; Shuai Chen, Zhejiang University; Chenjing Chen, Datian Central Primary School; Songqing Jin, Michigan State University*

#### Education Depreciation and Experience Appreciation: Evidence from Rural China

*Jiaojiao Wu, University of Chinese Academy of Sciences; Yunli Bai, Institute of Geographic Sciences & Natural Resources Research; Linxiu Zhang, Institute of Geographic Sciences & Natural Resources Research*

#### High-Skilled Labor Migration: College Graduates' Job Location Choices in China

*Ruixin Jia, Texas A&M University; Mengqiao Liu, Texas A&M University; Yu Yvette Zhang, Texas A&M University*

#### Demonstration-Driven Or Crowding-Out? Estimating Spillovers from New Agricultural Operators on Smallholders in China

*Dandan Li, China Academy for Rural Development (CARD); Wenrong Qian, Zhejiang University; Xinjie Shi, Zhejiang University*



## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

### **South Asian Agriculture in the Twenty-first Century: Poverty Alleviation and Sustaining Resources**

*Howard University (M1)*

#### **Track Session-South Asia Section**

First-ever track session of the new South Asia Section will showcase prominent researchers of South-Asian origin, and highlight the need for the regional focus with ongoing studies on two key challenges: poverty alleviation and sustainability of resources. Three distinguished AAEA Fellows – Dr. Uma Lele, Dr. Prabhu Pingali and Dr. Madhu Khanna – will lead-off the session sharing their work, experiences and future research needs related to the region. Then, a set of studies focused on the two key challenges in South Asian agriculture will be presented in the lightning-session mode.

Organizer: Gopinath Munisamy, University of Georgia

Moderators: S. J. Balaji, ICAR-NIAP; Kathy Baylis, University of California, Santa Barbara

#### **Why Focus on South Asia Agriculture?**

*Uma Lele, Institute of Economic Growth*

#### **South Asia: Lessons for the Rest of the World**

*Prabhu L. Pingali, Cornell University*

#### **South Asia to U.S. Academics: My Journey**

*Madhu Khanna, University of Illinois at Urbana-Champaign*

#### **Soaring Prices and Supply Chain Disruption: Challenges to India's Food Security**

*Kayode M. Ajewole, USDA - Economic Research Service; Yacob A. Zereyesus, USDA - Economic Research Service; Lila Cardell, USDA-Economic Research Service; Ethan Sabala, USDA-Economic Research Service; Inder Majumdar, University of Illinois at Urbana-Champaign*

#### **Developing the Women's Empowerment in Migration Index: The Case of Bangladesh**

*Nazmun N. Ratna, Lincoln University; Muzna F. Alvi, IFPRI; Farha D. Sufian, Independent Consultant; Claudia Ringler, IFPRI*

#### **Dietary Transitions As Climate Mitigating Measures and Their Environmental Impacts in South Asia**

*Vartika Singh, Humboldt University of Berlin; Chandan Jha, Institute of Management Ahmedabad; Ranjan Kumar Ghosh, IIM-Ahmedabad; Miodrag Stevanovic, Potsdam Institute for Climate Impact Research (PIK); Hermann Lotze-Campen, Potsdam Institute for Climate Impact Research*

#### **Political Instability and Undernourishment: Nepal's Decade-Long Insurgency**

*Dikshit Poudel, University of Georgia; Gopinath Munisamy, University of Georgia*

#### **Alternate Marketing Channels and Wholesale Market Integration - An Analysis in the Context of Agricultural Market Reforms in India**

*Nikita Gupta, Indian Institute of Management Ahmedabad; Poornima Varma, Indian Institute of Management*



## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

### **New Frontiers in the Management and Value of Water for Irrigation**

*Silver Linden (2nd Floor)*

#### **Track Session-Land, Water, & Economics and Association of Environmental & Resource Economists**

The economic management and value of irrigation is essential for evaluating policies for water conservation. Recent developments in computing power and data availability have increased the scope of the analysis for irrigation decisions. The aim of this session is to present findings of new techniques to assess the value and management of water for irrigation. These include the determining land value based on water rights (Sampson), evaluating the appropriate time to adopt irrigation best management practices (Huang), assessing the viability of irrigation infrastructure to reduce groundwater depletion (Quintana-Ashwell), and modeling the connection between climate variability and a portfolio of irrigation options (Kovacs). We expect the session to generate enlightening discussions on the management and the value of water for irrigation and identify future directions for research.

Organizer: Qiuqiong Huang, University of Arkansas

#### **Agricultural Land Market Value of Prior Appropriation Water Rights**

*Gabriel Sampson, Kansas State University*

#### **Time to Adopt Irrigation Best Management Practices**

*Qiuqiong Huang, University of Arkansas; Evelyn Osei, University of Arkansas; Kent Kovacs, University of Arkansas*

#### **Viability of Tail-Water Recovery With on-Farm Storage to Reduce Groundwater**

*Nicolas E. Quintana Ashwell, Mississippi State University; Drew Gholson, Mississippi State University*

#### **Climate Uncertainty and Irrigation Choice**

*Kent Kovacs, University of Arkansas; Dat Q. Tran, University of California, Riverside; Qiuqiong Huang, University of Arkansas*

### **Agricultural Policy - Producer Programs / Farm Bill**

*Salon 14 (M2)*

#### **Selected Presentation**

Four presentations that discuss producer programs and Farm Bill topics. Livestock Forage Program, Base Acre Update, Economic Injury Disaster loan Program, and Health Coverage for Beginning Farmers and Ranchers.

Moderator: Alexis N. Ghormley, Texas A&M University

#### **Participation of Agricultural Producers in the Economic Injury Disaster Loan Program**

*Anil K. Giri, USDA-Economic Research Service; Dipak Subedi, USDA-Economic Research Service; Hari Regmi, Purdue University; Monika Ghimire, Oklahoma State University*

#### **Drought and the U.S. Livestock Sector: Assessing the Impact of the Livestock Forage Program**

*Robert A. Hrozencik, USDA-Economic Research Service; Gabriela Perez-Quesada, University of Tennessee*

#### **The Impact of Expanded Health Coverage on U.S. Beginning Farmers and Ranchers**

*Becca B. R. Jablonski, Colorado State University; Allison Bauman, Colorado State University; Timothy Beatty, University of California, Davis; Alexandra E. Hill, Colorado State University*

#### **An Evaluation of Alternatives for Updating Base Acres in the 2023 Farm Bill**

*Alexis N. Ghormley, Texas A&M University; Joe L. Outlaw, Texas A&M University; Bart L. Fischer, Texas A&M University; David P. Anderson, Texas A&M University*



## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

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### **Behavioral and Institutional Economics - Lightning Session 1**

*Chinatown (M3)*

#### **Selected Presentation-Lightning Session**

Papers in this session discuss the economic decision-making processes of individuals and institutions and provide relevant policy implications.

Moderator: Zhengfei Guan, University of Florida

**Can Payments-for-Ecosystem Services Change Social Norms? Experimental Evidence on Motivational Crowding from Costa Rican Oil Palm Smallholders**

*Tobias Baehr, University of Goettingen; Adriana Bernal Escobar, University of Goettingen; Meike Wollni, University of Göttingen*

**The Geographical Disparity of Climate Security: Climatic Shocks, Crop Market and Conflict in Northern Nigeria**

*Chun Song, Food and Agriculture Organization of the United Nations; Antonio Scognamillo, Food and Agriculture Organization; Marina Mastrorillo, CGIAR*

**Factors Affecting Household Food Waste Behavior During COVID-19: Shopping Behavior, Cooking Behavior, Food Security, and Household Characteristics**

*Qiujie Zheng, University of Maine; Zhifeng Gao, University of Florida; Kevin Berry, University of Alaska, Anchorage*

**What Happens When Everyone Knows Behavioral Economics? Impact of Awareness of Cognitive Biases on Effectiveness of Behavioral Science-Based Interventions in Conservation Programs**

*Pallavi Shukla, Deakin University*

**Soil Quality Perceptions: Characterizing Bias and Linkage With Farming Decisions for Rice- Growers in India**

*Sumedha Shukla, IIT-Delhi; Gaurav Arora, Indraprastha Institute of Information Technology*

**What Are the Attributes That Actually Catch Our Eye? A Choice Experiment to Understand Latin American Coffee & Cocoa Consumers' Preferences**

*Carlos F. Duran Gabela, Texas Tech University; Oscar Sarasty, Texas Tech University; Pablo Lamino Jaramillo, Texas Tech University; Amy Boren-Alpizar, Texas Tech University*

**Legalizing Undocumented Farmworkers: Implications for the Farm Sector**

*Tianyuan Luo, University of Florida; Zhengfei Guan, University of Florida; Feng Wu, University of Florida*





## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

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### **The Economics of Water Quality**

Salon 15 (M2)

#### **Selected Presentation**

This session brings together studies that advances the economic understanding of water quality in the U.S. Using advanced empirical and intergrated assessment models, the studies examines the interaction of water quality and fishery abundance, the impact of wetland restoration on water quality, the economic benefits of the environmental quality incentive programs, and the potential water benefits of a national climate policy.

Moderator: Marin Skidmore, University of Wisconsin - Madison

#### **U.S. Climate Policy Can Contribute to Improved Water Quality and Reduced Hypoxia in the Gulf of Mexico**

*Shan Zuidema, University of New Hampshire; Jing Liu, Purdue University; Maksym Chepeliev, Center for Global Trade Analysis, Purdue University; David R. Johnson, Purdue University; Uris Lantz C. Baldos, Purdue University; Steve Frolking, University of New Hampshire; Christopher Kucharik, University of Wisconsin-Madison; Wilfred Wollheim, University of New Hampshire; **Thomas W. Hertel**, Purdue University*

#### **Housing Market Capitalization of Freshwater Fisheries: Evidence from Oneida Lake, NY**

***Weizhe Weng**, University of Florida; Xinde Ji, University of Florida; Kevin J. Boyle, Virginia Tech; Lars G. Rudstam, Cornell University; Kelly M. Cobourn, Virginia Tech*

#### **Local Economic Benefits of the Environmental Quality Incentives Program: Evidence from Rural Housing Markets**

*Pengfei Liu, University of Rhode Island; Yanggu Li, Virginia Tech; **Wei Zhang**, Virginia Tech*

#### **Nature's Kidneys: The Role of the Wetland Reserve Program in Restoring Water Quality**

*Nicole Karwowski, University of Wisconsin-Madison; **Marin Skidmore**, University of Wisconsin - Madison*



## Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM

### Managing Natural Resources- Lightning Session

Judiciary Square (M3)

#### Selected Presentation-Lightning Session

This session brings together eight studies that provide theoretical and empirical contributions to our understanding of natural resource management.

Moderator: Amanda R. Lindsay, Bates College

#### Can Productivity Growth Contribute to Biodiversity Preservation? The Role of International Trade

*Alfredo Cisneros-Pineda, Purdue University; Thomas W. Hertel, Purdue University; Uris Lantz C. Baldos, Purdue University; Abhishek Chaudhary, Indian Institute of Technology*

#### Renewable Resource Market Responses Under Rights-Based Management: Linkages in Gulf of Mexico Fisheries.

*Jordan Moor, University of Florida; Frank Asche, University of Florida; Andrew J. Ropicki, University of Florida*

#### Saving the Colorado River Through Conservation Payments to Irrigated Agriculture

*Shahin Bahrami, Texas A&M University; Mani Rouhi Rad, Texas A&M University; Rodolfo M. Nayga Jr., Texas A&M University*

#### Behavioural Impact of International Marine Protected Areas: Evidence from Antarctica

*Yifan Lu, University of Tasmania; Satoshi Yamazaki, Centre for Marine Socioecology, University of Tasmania*

#### The Assessment of Economic and Environmental Impacts of Water Use Efficiency and Farm Practices Through an Economic and Biophysical Integrated Model

*Tihomir Ancev, University of Sydney; Miguel A. Carriquiry, Universidad de la República, Ciencias Economicas; Franco Frabasile, Universidad ORT Uruguay; Andres Saracho, Universidad De La Republica; Juan Francisco Rosas, Universidad ORT Uruguay*

#### Hydro-Economic Modelling of Irrigated Agriculture Water Use: Evidence from an Inter-Basin Transfer Scheme in Southern Africa

*Ifedotun V. Aina, University of Cape Town; Djiby Racine Thiam, University of Cape Town; Ariel Dinar, University of California, Riverside*

#### Using Local Knowledge to Model Bioeconomic Systems

*Amanda R. Lindsay, Bates College; Dale Manning, Colorado State University; Lynne Lewis, Bates College*

### Food Insecurity in the United States

LeDroit Park (M3)

#### Selected Presentation

More than 10 percent of U.S. households were food insecure during 2021. This session includes three papers that contribute to our understanding of food insecurity rates, food security dynamics, and disparities in nutritional quality across food security status. A fourth paper explores food bank donations, a critical mechanism for alleviating food insecurity in the United States, and its relationship with food prices.

Moderator: Jianqiang Zhao, Cornell University

#### Food Security Dynamics in the United States: Asset Based Approach

*Siwen Zhou, Colorado State University; Joshua P. Berning, Colorado State University*

#### Forecasting State-Level Food Insecurity Rates in the United States

*Akash Issar, Texas A&M University; Pourya Valizadeh, Texas A&M University; Henry L. Bryant, Texas A&M University; Bart L. Fischer, Texas A&M University*

#### What Contributes to the Gap in Nutritional Quality Across Food Security Status?

*Duoyu Wang, Colorado State University; Rebecca Cleary, Colorado State University*

#### The Food Price Transmission on Donations to Local Food Bank

*Jianqiang Zhao, Cornell University; Lauren Chenarides, Arizona State University; Miguel I. Gomez, Cornell University*



## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

### **Food Safety Around the World**

Dupont Circle (M3)

#### **Selected Presentation-Lightning Session**

Food-borne diseases are estimated to cause some 600 million illnesses and 400,000 deaths per year, globally. Papers in this lightning session analyze food safety in varied contexts, including how COVID impacted food safety monitoring and outcomes; the relationship between minimum wages and food safety; impacts of repeated food recalls; risk management in the produce industry; food safety issues in China; and consumers' perceptions of food safety and the environment.

Moderator: Kar Ho Lim, USDA-Economic Research Service

#### **The Impact of the COVID-19 Pandemic on Food Fraud**

*Shweta Gimonkar, North Carolina State University; Kathryn A. Boys, North Carolina State University*

#### **Minimum Wage and Food Safety: Evidence from the U.S. Meat and Poultry Processing Industry**

*Hyejin Yim, Purdue University; Bhagyashree Katare, Purdue University*

#### **Recurrent Event Survival Analysis of Repeated Food Recalls: Some Insights from the U.S.**

*Sherzod B. Akhundjanov, Utah State University; Veronica F. Pozo, Utah State University; Briana Thomas, Utah State University*

#### **Risk Management Strategy of Food Safety: The Case of the U.S. Fresh Produce Supply Chain**

*Minhao Yan, Cornell University; Houtian Ge, Cornell University; Miguel I. Gomez, Cornell University*

#### **Decentralization and Food Safety: Evidence from China**

*Wen Lin, Zhejiang University; Jianguan Liang, Zhejiang University*

#### **Driving Factors of Antimicrobial Use in Pig Farms in China**

*Huan Chen, Zhejiang University; Xiaoli Fan, University of Alberta; Yuehua Zhang, Zhejiang University*

#### **Good for the Environment and Safer? Eco-Labels' Food Safety Halo Effect**

*Kar Ho Lim, USDA-Economic Research Service; Renu Ojha, Virginia Tech University; Rodolfo M. Nayga Jr., Texas A&M University*

### **Household and Labor Economics - Lightning Session 1**

Mount Vernon Square (M3)

#### **Selected Presentation-Lightning Session**

Lightning session

Moderator: Christopher T. Sichko, USDA-Economic Research Service

#### **Immigration Enforcement, Entrepreneurship, and Firm Entry/Exit**

*Samyam Shrestha, University of Georgia; Hugo Sant'Anna, University of Georgia*

#### **Farmer Opinions Toward the H-2A Program: A National Survey**

*Wen Liu, University of Florida; Gulcan Onel, University of Florida; Jaclyn D. Kropp, University of Florida*

#### **Domestic Farm Employment and the H-2A Visa Program**

*Marcelo J. Castillo, USDA-Economic Research Service The Resource and Rural Economics Division; Zachariah Rutledge, Michigan State University; Dahye Kim, Michigan State University*

#### **Less Is More Expensive: The Cognitive Cost of Bulk Buying and the Effect of Regulating the Display of Unit Prices**

*Christoph Bauner, University of Massachusetts; Mallick Hossain, Federal Reserve Bank of Philadelphia*

#### **On Rice and Weddings: Impacts of Food Assistance on Child Marriage in Indonesia**

*Aaron Lorenz, University of Guelph; Yu Na Lee, University of Guelph*

#### **Drought and Migration During the Great Depression**

*Christopher T. Sichko, USDA-Economic Research Service*



## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

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### **Impact Evaluations for Development**

*Capitol Hill (M3)*

#### **Selected Presentation-Lightning Session**

This lightning session consists of papers on impact evaluations of various programs, policies, and other changes on development indicators. The topic ranges from food security, weather shock, displacement, gendered impacts, conflict, and changes in institutional capacity.

Moderator: Bolanle A. Atilola, Kansas State University

#### **Impact of Cyclonic Storms on Early Childhood Health**

*Sulin Chowdhury, University of Connecticut*

#### **A Gendered Approach to Economic Impacts of Refugee Aid in Kenya**

*Deepak Kumar, Virginia Tech; Anubhab Gupta, Virginia Tech; J. Edward Taylor, University of California, Davis; Justin Kagin, Kagin's Consulting LLC*

#### **The Impacts of Small-Scale Irrigation on Women's Time Allocation in Ethiopia**

*Yeyoung Lee, Michigan State University; Elizabeth Basauri Bryan, International Food Policy Research Institute; Nicole M. Mason, Michigan State University; Ibrahim W. Hassen, Michigan State University; Veronique Theriault, Michigan State University; Claudia Ringler, IFPRI*

#### **Looking At Gender Is Not Enough-How Diversity of Farmer's Marginalization Relates to Variety Preferences**

*Eva Salve T. Bacud, University of Bonn; Maria K. Gerullis, Cornell University; Ranjitha Puskur, International Rice Research Institute; Thomas Heckelei, University of Bonn*

#### **The Effects of Internally Displaced Peoples on Consumption and Inequality in Mali**

*Jeremy D. Foltz, University of Wisconsin-Madison; Sakina Shibuya, University of Wisconsin-Madison*

#### **The Impact of Conflict on Child's Nutritional and Health Outcomes: Evidence from Nigeria.**

*Bolanle A. Atilola, Kansas State University; Timothy J. Dalton, Kansas State University*

### **Trade**

*Shaw (M3)*

#### **Selected Presentation**

Trade is both a classic topic in applied economics and a topic with substantial modern-day policy relevance. This session includes papers on topics such as the Russia-Ukraine war, immigration, foreign direct investment, and trade liberalization.

Moderator: Soojung Ahn, University of Connecticut

#### **How Does Immigration Policy Affect the U.S.-Mexico Trade of Tomatoes?**

*Wen Liu, University of Florida; Jaclyn D. Kropp, University of Florida; Gulcan Onel, University of Florida*

#### **The Unexamined Effects of China's Belt and Road FDI for Recipient Countries**

*Yue Shan, North Carolina State University; Kathryn A. Boys, North Carolina State University*

#### **The Impact of the Russia-Ukraine War on Global Food Supply Chains from the Perspective of Low-Income Food Deficit Countries**

*Soojung Ahn, University of Connecticut; Sandro Steinbach, North Dakota State University*



## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

### **Combined Session: Economic effects of Agricultural Conservation, Agri-Food Value Chains, Production Economics**

*Union Station (M3)*

#### **Selected Presentation**

Combined three sessions:

This session includes work that analyzes the effects of government and private market programs that incentivize conservation on agricultural land. Included studies evaluate the impacts of both historical and contemporary conservation programs.

Moderator: *Eliyasu Y. Osman, Kansas State University*

#### **Accounting for Upper Limits on Returns from Conservation Investments in Risk Diversification Strategies**

*Nawon Kang, Texas A&M University; Charles Sims, University of Tennessee-Knoxville; Paul R. Armsworth, University of Tennessee; James Mingie, University of Tennessee; Gengping Zhu, Washington State University; Seong-Hoon Cho, University of Tennessee*

#### **Effects of the USDA Rural Development Water and Waste Disposal Loan and Grant Program on Rural Water Quality and Local Businesses**

*James C. Davis, USDA-Economic Research Service; Krishna P. Paudel, USDA-Economic Research Service; Anil Rupasingha, USDA-Economic Research Service*

#### **Understanding Value Chain Structure and Functionality: The Domestic Onion Value Chain in Senegal**

*Alain De Janvry, University of California, Berkeley; Abdoulaye Cisse, University of California, Berkeley; Carly D. Trachtman, IFPRI; Elisabeth Sadoulet, University of California, Berkeley; Mame Mor Anta Syll, Université Gaston Berger*

#### **Market Channel and Heterogeneous Storage Behavior in Response to Multiple Risks: The Case of Nigerian Maize Traders**

*Daye Kwon, Michigan State University; Saweda Liverpool-Tasie, Michigan State University; Thomas A. Reardon, Michigan State University*

#### **Economic Impacts of Climate Change-Driven Changes in Crop Yields: Evidence from the Newest Generation of Climate and Crop Models**

*Jayson F. Beckman, USDA-Economic Research Service; Maros Ivanic, USDA-Economic Research Service; Nelson B. Villoria, Kansas State University; Jonas Jagermeyr, Columbia University; Christoph Mueller, Potsdam Institute for Climate Impact Research*

#### **The Variation in Intensity of Alternative Tillage Practices Adopted by Farmers Due to Crop Rotation and Geographic Factors.**

*Eliyasu Y. Osman, Kansas State University; Jason S. Bergtold, Kansas State University*

### **Teaching with Various Statistical Software**

*Tulip (2nd Floor)*

#### **Track Session-Teaching, Learning & Communications Section and Econometrics Section**

Teaching statistical software plays a critical role in advancing student data analytics skills. Presenters of this session will share innovative practices in teaching data skills with various statistical software such as R and Excel. The role of data science in the undergraduate Ag Econ curricula will also be discussed. The session aims to contribute to a database of Data Skill Tutorials for Applied Economics and Business Students that are ADA compliant and available for anyone to use in their courses. These tutorials would preferably be paired with examples that are economic specific and could be used a variety of economic courses.

Organizers: *Katherine M. Lacy, University of Nevada, Reno; Na Zuo, University of Arizona*

#### **Teaching R in Agricultural Economics Class**

*Andrew W. Stevens, University of Wisconsin-Madison*

#### **Assessing the Tradeoffs Between Excel and R in Undergraduate Data Analysis**

*Misti D. Sharp, University of Florida*

#### **Using R to Save Time on Teaching Related Tasks**

*Katherine M. Lacy, University of Nevada, Reno*

#### **Integrating Data Science Into the Undergraduate Ag Econ Curricula**

*Susan E. Chen, Virginia Tech University*



## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

### **Competitiveness in Seasonal and Perishable Produce Markets**

*George Washington University (M1)*

#### **Track Session-Specialty Crop Economics and Extension Section**

In response to a September 2022 letter submitted by the FL Congressional delegation requesting a Section 301 trade investigation, the US Trade Representative (USTR) in coordination with the U.S. Department of Agriculture (USDA) will establish a private sector industry advisory panel to recommend measures to promote the competitiveness of producers of seasonal and perishable produce in the southeastern United States (FR Doc. 2022-23502). Earlier comments from USTR acknowledged “because of distinct conditions of competition, producers of perishable, seasonal agricultural products, which have short marketing periods, can face unique challenges” (TN/RL/GEN/129). This session includes presentations that highlight key economic factors impacting competitiveness in winter seasonal and perishable produce markets. The goal is to generate a robust, forward-looking discussion around future directions and marketing management objectives for the produce industry and for policymakers focused on competitiveness.

Organizers: Kimberly L. Morgan, University of Florida; Suzanne Thornsby, University of Florida

Discussant: Suzanne Thornsby, University of Florida

#### **Shock Resistant Shortened Supply Chains**

*Kimberly L. Morgan, University of Florida*

#### **What’s Next for Labor**

*Steven S. Zahniser, USDA-Economic Research Service; Marcelo J. Castillo, USDA-Economic Research Service The Resource and Rural Economics Division*

#### **Rural Broad Band As a Foundation for Innovation**

*Andrew Muhammad, University of Tennessee; Sreedhar Upendram, University of Tennessee*

### **Coping with Microaggressions and Harassment in the Profession**

*Gallaudet University (M1)*

#### **Track Session-Committee on Women in Agricultural Economics and Graduate Student Section**

Historically, academia and the economics profession has left historically underrepresented and marginalized populations feeling out of place and without a voice. Diversity enables enhanced awareness, critical thinking, and benefits to the students and stakeholders we provide services to. While diversity is the first step, equity ensures that the system uplifts each of its members and enables them to succeed. Universities and workplaces that foster inclusion promote mental health by advocating for representation and valuing input from marginalized members of the institution. A sense of worth within one’s institution and the space to discuss concerns promotes a healthy work environment and the well-being of its members. However, there are systemic issues within the economics profession that can allow for microaggression and harassment. This session will address how to cope with these issues and what we can do to break the cycle.

Tentative topics:

1. What are microaggressions and how can they present themselves?
2. How can we address systemic issues related to microaggressions and harassment?
3. What actions can people take if they experience microaggressions and/or harassment?
4. How can we increase diversity, equity and inclusivity in research and in our profession?
5. What initiatives do you know of that support equal opportunities and help survivors of harassment within our field?
6. What advice would you give early career folks who want to advocate for themselves and others?

Organizers: Megan N. Hughes, Purdue University; Natalie R. Loduca, Michigan State University

Moderator: Natalie R. Loduca, Michigan State University

#### **Panelist: Dr. Anna Josephson**

*Anna Josephson, University of Arizona*

#### **Panelist: Dr. Stephen Devadoss**

*Stephen Devadoss, Texas Tech University*



## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

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### **Trends in Fruit and Vegetable Demand and Implications for Prices, Marketing, and Agribusiness**

*Magnolia (2nd Floor)*

#### **Track Session-Agribusiness Economics & Management and Food & Agricultural Policy Section**

Fruit and vegetable products, especially in fresh produce form, are key components of consumer food expenditures and important to dietary outcomes. Recent demand for fruit and vegetable products has been impacted by new product introductions, product differentiation, health trends, prices, supply and demand side policies, and many other factors. These changes can have significant implications for upstream retailers, processors, and growers. This session examines some trends and topics in fruit and vegetable demand and changes in terms of pricing, product provisions, and farm management decisions for and by upstream stakeholders.

Organizer: Xiao Dong, USDA-Economic Research Service

#### **Farmer Crop Choice and Local Food Demand: Does Urbanization Lead to Diversification?**

*Yanan Liu, The Ohio State University; Allen Klaiter, The Ohio State University; Cristina Connolly, University of Connecticut; Gregory M. Astill, USDA-Economic Research Service*

#### **Estimating Demand for Non-Alcoholic Beverages: Is Our Thirst for Fruit Juice Dissipating?**

*Yu Ping Chang, Cornell University; Bradley J. Rickard, Cornell University; Anne T. Byrne, USDA-Economic Research Service*

#### **Retail Price Inflation and Demand for California Specialty Crops, 2020-2022**

*Richard J. Volpe III, California Polytechnic State University; Xiaowei Cai, California Polytechnic State University, San Luis Obispo; Alexander Stevens, USDA-Economic Research Service*

#### **Does Uniform Pricing Apply to Retail Fresh Produce?**

*Xiao Dong, USDA-Economic Research Service; Erik James, University of Pennsylvania*



## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

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### **Demand and Supply Distortions, Environmental Challenges & Adaptation of New Technologies in the Dairy Sector**

*Scarlet Oak (2nd Floor)*

#### **Track Session-International Section and Food & Agricultural Marketing Policy Section**

The dairy industry has gone recently through demand distortions, supply chain bottlenecks, labor shortages and environmental challenges. The theme addresses recent changes in the dairy market dynamics across the globe. Topics include: (1) changes in U.S. dairy demand post-pandemic, (2) adoption of robotic milking technology, (3) estimation of shadow price of farmer/family labor and its role in the labor demand (4) agricultural sustainable practices in U.S. dairies, (5) heterogeneity in the effect of mitigating emissions on Irish dairy farms, (6) recent trends in dairy data collection, and (7) price cycles in Brazil.

Organizer: Luis Peña-Lévano, University of Wisconsin-River Falls

Discussant: Thorsten Hemme, International Farm Comparison Network

#### **Dairy Product Demand Impacts of the Pandemic Economy and Lessons Learned**

*Charles Nicholson, University of Wisconsin-Madison; Mark Stephenson, University of Wisconsin-Center for Dairy Profitability*

#### **Automatic Milking Systems: An Exploratory Study of Adoption in Wisconsin Dairy Farms**

*Shaheer Burney, University of Wisconsin-River Falls; Luis Peña-Lévano, University of Wisconsin-River Falls*

#### **Shadow Wages, Formal Agri-Education and Hired Labour Demand: Evidence from Irish Dairy Farms**

*Luis F. Garcia, National University of Ireland Galway; Doris Laepple, National University of Ireland Galway; Emma Dillon, Teagasc*

#### **Sustainability Agricultural Practices in Midwest Dairy Farms**

*Trinity Foster, University of Wisconsin-River Falls; Luis Peña-Lévano, University of Wisconsin-River Falls; Shaheer Burney, University of Wisconsin - River Falls*

#### **Heterogeneity in the Effect of GHG Mitigation Strategies on Irish Dairy Farms**

*Lorraine Balaine, National University of Ireland Galway and Teagasc, Athenry; Cathal Buckley, Teagasc; James P. Breen, University College Dublin, Ireland; Dominika Krol, Teagasc*

#### **Forecasting Brazilian Farm Milk Prices With Alternative Methods**

*Andre R. P. Simões, Universidade Estadual De Mato Grosso Do Sul; Charles Nicholson, University of Wisconsin*

#### **Understanding Producers Value of Milking Automatization**

*Jingyuan Zhang, Texas A&M University; Grace Melo, Texas A&M University*





## **Concurrent Sessions ★ Monday, 1:00 PM - 2:30 PM**

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### **Issues in U.S. Nutrition Assistance During the COVID-19 Pandemic**

*Dogwood (2nd Floor)*

#### **Track Session-Food Safety & Nutrition Section and Health Economics Section**

The COVID-19 pandemic led to unprecedented challenges for U.S. food assistance programs. In response to these challenges, policymakers altered how these programs operated in various ways big and small. The papers in this session examine issues in U.S. food assistance during the pandemic, including how the maximum Supplemental Nutrition Assistance Program (SNAP) benefit increase impacted recipient household expenditure behavior, how SNAP emergency allotments bringing all recipients to the maximum benefit affected the nutritional quality of household food purchases, how the expiration of SNAP emergency allotments in some states impacted household food sufficiency, and how state electronic benefit transfer systems being online or not impacted enrollment in the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC).

Organizer: Jordan W. Jones, USDA-Economic Research Service

Moderator: Craig G. Gundersen, Baylor University

#### **The Food Sufficiency Impacts of the End of SNAP Emergency Allotments**

*Jordan W. Jones, USDA-Economic Research Service; Reem Hashad, Independent Researcher*

#### **Effects of SNAP Participation on the Healthfulness of Foods Purchased by Households With Children During the COVID-19 Pandemic**

*Mary K. Muth, RTI International; Abigail M. Okrent, USDA-Economic Research Service; Acelynn G. Barefoot, RTI International; Darryl Creel, RTI International; Brenna Ellison, Purdue University; Shawn A. Karns, Research Triangle Inst; Joseph T. Llobrera, Center on Budget and Policy Priorities; Erin Love, RTI International; Lisa Mancino, USDA-Economic Research Service*

#### **Household Spending Responses to the SNAP Benefit Increase During the COVID-19 Pandemic: Was This Time Different?**

*Xingguo Wang, Texas A&M University; Pourya Valizadeh, Texas A&M University; Henry L. Bryant, Texas A&M University; Rodolfo M. Nayga Jr., Texas A&M University; Bart L. Fischer, Texas A&M University*

#### **Measuring the Effects of EBT Systems on WIC Enrollment Patterns During COVID-19**

*Andrew S. Hanks, The Ohio State University; Dong Won Yoon, The Ohio State University; Robert L. Scharff, The Ohio State University*



## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

### **Quantifying War-induced Crop Losses in Ukraine: Implications for Global Food Supplies and Local Welfare and Food Security**

Salons 6-10 (M2)

#### **Invited Paper**

The session will illustrate how remote sensing, administrative, and farm survey data can be used to (i) assess war impacts on crop production in 2022, expected output in the 2023 season, and agricultural profits in near real time and at high level of granularity; (ii) inform design, targeting and assessment of public programs aiming to reduce negative impacts of the war in the short term; and (iii) draw out implications for global food security and the longer term vision for Ukraine's agricultural sector. The methodologies hold general lessons beyond the specific case of Ukraine.

Moderator: Denis Bashlyk, Ministry of Agricultural Policy and Food, Government of Ukraine

Discussants: Joseph W. Glauber, IFPRI; Maximo Torero, Food and Agriculture Organization of the United Nations

#### **Using Machine Learning to Assess Agricultural Production Impacts of the War in Ukraine**

*Natalia Kussul, National Technical University of Ukraine; Guido Lemoine, Joint Research Center of the European Commission; Daniel Ali, The World Bank*

#### **Using Administrative, Household Survey, and Remotely Sensed Data to Assess the Impact of Agricultural Support Programs Under Conflict Conditions: Evidence from Ukraine**

*Klaus Deininger, The World Bank; Daniel Ali, The World Bank; Oleg Nivievskyi, Kyiv School of Economics*

### **Climate-Smart Agricultural Policy, Markets, and Programs: The Role of (non) Additionality and (non) Persistence**

Salon 12 (M2)

#### **Organized Symposium**

U.S. producer adoption of climate smart agricultural practices, such as no-till/reduced tillage and cover crops, is one pathway to mitigate greenhouse gas emissions from agriculture. Understanding the degree to which the adoption of climate smart practices by producers is additional and persistent is critical to designing policies, markets, and programs that incentivize the intended practice change—and associated benefits. This session will be comprised of 5 short (10 minute) presentations on topics related to persistence and additionality in practice adoption followed by a structured-but-lively panel discussion.

Organizer: Maria S. Bowman, USDA-Economic Research Service

Moderator: Maria S. Bowman, USDA-Economic Research Service

Panelists: Kent D. Messer, University of Delaware; Leah H. Palm-Forster, University of Delaware; Bryan Pratt, USDA-Economic Research Service; David Ripplinger, North Dakota State University; Kelly Young, Field To Market

### **Unsettled Topics in Cannabis Economics**

Salon 13 (M2)

#### **Organized Symposium**

Cannabis policy and the effects of various forms of regulations are growing topics of discussion among economists. In recent years, many U.S. states have been shifting toward legalization and regulation. California was the first US state to allow medicinal cannabis use in 1998, but cannabis was largely unregulated in California until 2018, when adult-use cannabis was legalized, and both adult-use and medicinal cannabis were regulated and taxed. This session explores various economic aspects of the cannabis market and compares different legalization, taxation, and regulation regimes.

Moderator: Robin Goldstein, University of California, Davis

Discussant: Daniel A. Sumner, University of California, Davis

Panelists: Dominic Corva, Humboldt State University; Michael Polson, University of California, Berkeley; Olena Sambucci, University of California, Davis; Koleman Strumpf, Wake Forest University



## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

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### **The Structure and Resiliency of Rural Healthcare and Labor Markets: Interdependence, Adaptations, and Emerging Economic Potential**

*Tulip (2nd Floor)*

#### **Track Session-Community & Regional Economics Network and Health Economics Section**

Labor and healthcare markets determine a community's ability to withstand, adjust, and prosper with change. In this session, we explore the resilience of rural communities along these two essential dimensions. The four papers in this session discuss crucial elements in the resilience of communities. The topics include resilience to COVID, resilience to structural changes that come with a transition to a greener economy, and the role of health markets in strengthening labor markets and communities. Taken together, these papers highlight the vulnerabilities of rural labor markets and their strong (inter)dependence on healthcare access.

Organizer: Susan E. Chen, Virginia Tech

Moderator: Susan E. Chen, Virginia Tech

#### **Labor Force Participation Rate Co-Movements in West Virginia Counties**

*Joshua P. Beverly, Virginia Tech; Clinton L. Neill, American Veterinary Medical Association; Shamar L. Stewart, Virginia Tech*

#### **Green Skills and Green Potential Prevalence: An Application to Appalachia**

*Yang Cheng, Virginia Tech; Susan E. Chen, Virginia Tech; Andrew Katz, Virginia Tech*

#### **Did the Rural Health Infrastructure Breakdown During the Pandemic? Evidence from the 2020 Meatpacking Plant COVID-19 Outbreaks**

*Thomas P. Krumel Jr., North Dakota State University; Edmund Adorkor, North Dakota State University*

#### **Changes in Rural Health Care Access in the United States, 2000-18**

*Elizabeth A. Dobis, USDA - Economic Research Service*



## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

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### **Demystifying the WASDE Outlook Process**

*Howard University (M1)*

#### **Track Session-Extension Section**

The process that leads to the release of monthly World Agricultural Supply & Demand Estimates (WASDE) and the outlook reports that explain it can be mystifying, even to users of those reports. This session will review the history of the World Agricultural Outlook Board (WAOB) and how the WASDE process works, give detailed insights from the analysts on how they prepare for the interagency meetings, explain data sources and how they're used, describe interactions among the USDA agencies that lead to "lockup" and the WASDE estimates, explain how the ERS Outlook reports are created and published, and give an example of how extension and industry economists use them. The goal of this session is to provide transparency and understanding of the process that creates information used by markets around the world. It also illuminates a possible career opportunity for economists.

Organizers: Brian D. Adam, USDA-Economic Research Service; Jennifer K. Bond, USDA-Economic Research Service; Jerry Cessna, USDA-Economic Research Service; Shida Rastegari Henneberry, USDA-Economic Research Service

Moderator: Brian D. Adam, USDA-Economic Research Service

#### **Overview of Outlook At ERS**

*Shida Rastegari Henneberry, USDA-Economic Research Service; Jennifer K. Bond, USDA-Economic Research Service*

#### **Origins of WAOB and Overview of the WASDE Process**

*Mark D. Jekanowski, USDA-World Agricultural Outlook Board*

#### **Analyzing Markets in Preparation for WASDE**

*Todd Hubbs, USDA-Economic Research Service; Russell Knight, USDA-Economic Research Service*

#### **Data Sources and Technology**

*Bryn Swearingen, USDA-Economic Research Service*

#### **"Lockup" and Interactions in Inter-Agency (ICEC) Meetings**

*Andrew R. Sowell, USDA-Economic Research Service; Mark D. Jekanowski, USDA-World Agricultural Outlook Board; Aaron Ates, USDA-Economic Research Service*

#### **Using the WASDE and ERS Outlook Reports**

*Daniel M. O'Brien, Kansas State University; Guy H. Allen, Kansas State University; Frayne Olson, North Dakota State University; Chad E. Hart, Iowa State University; Benjamin P. Brown, University of Missouri*



## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

### **Farmland and Policy**

Dupont Circle (M3)

#### **Selected Presentation-Lightning Session**

The session will look at various aspects of agricultural land and relevant policy implications.

Moderator: Chad M. Fiechter, Purdue University

**Not for Sale: The Role of Farmland As a Portfolio Investment and Its Impact on Supply in the Market.**

*Jiseon Choi, The Ohio State University; Margaret C. Jodlowski, The Ohio State University*

**The Impact of Soil Erosion on Agricultural Land Values in the U.S. Midwest**

*Le Chen, North Carolina State University; Roderick M. Rejesus, North Carolina State University*

**Do Agricultural Conservation Easements Promote Farm Investment?**

*Daniel Bigelow, Oregon State University*

**Loss of Trust and Financial Damage: Potential Effects of the Financial Crisis in 2007 on Farmland Investment Decisions**

*Luise M. Meissner, University of Goettingen; Oliver Musshoff, Georg-August-Universitat Goettingen; Michael Danne, Thuenen Institute*

**Impact of Interest Rate Changes and Government Payments on Farm Operation's Debt**

*Rabail Chandio, The Ohio State University; Ani Katchova, The Ohio State University; Anil K. Giri, USDA-Economic Research Service; Dipak Subedi, USDA-Economic Research Service*

**Impact of Community Reinvestment Act on Minority and Female Employment Growth**

*Luyi Han, The Pennsylvania State University; Yuxuan Pan, The Pennsylvania State University; Stephan J. Goetz, The Pennsylvania State University; Anil Rupasingha, USDA-Economic Research Service*

**A Double-Question Survey Measure of Farmland Price Bubbles**

*Mohammad Haseeb Daudzai, Purdue University; Todd H. Kuethe, Purdue University; Pete L. Drost, Purdue University*

**Farmland Value Expectations and Learning**

*Chad M. Fiechter, Purdue University*

### **Agricultural Policy - International**

Woodley Park (M3)

#### **Selected Presentation**

Four papers on international topics. Expansion of Organic Farmland. Agricultural Transactions in Brazil. Conflicts in GMO Approval. Cereal Markets in the Sudan.

Moderator: Pierre Merel, University of California, Davis

**Climatic Disasters and Conflicts in GMO Approval**

*Xiangwen Kong, Renmin University of China; Yuxuan Sun, Renmin University of China; Huanguang Qiu, Renmin University of China*

**Evaluating Cereal Market (Dis)Integration in Less Developed and Fragile Markets: The Case of Sudan**

*Kibrom Abay, IFPRI; Lina Alaaeldin Abdelfattah, IFPRI; Clemens Breisinger, IFPRI; Khalid H. A. Siddig, Khartoum University*

**Relationship Between the "Forced Labor Dirty List" and Agricultural Transactions in Brazil**

*Tara Mittelberg, University of Wisconsin-Madison; Marin Skidmore, University of Wisconsin - Madison; Holly Gibbs, University of Wisconsin-Madison*

**Policy-Induced Expansion of Organic Farmland: Implications for Food Prices and Welfare**

*Pierre Merel, University of California, Davis; Zhiran Qin, University of California, Davis; Richard J. Sexton, University of California, Davis*



## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

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### **Applied Risk Analysis - Lightning Session**

Judiciary Square (M3)

#### **Selected Presentation-Lightning Session**

New approaches to risk hedging and insurance rating in agriculture

Moderator: Siun Lee, Texas A&M University

**A Statistical Learning Approach to Pasture, Rangeland, Forage (PRF) Insurance Coverage Selection**

*Xavier A. Villavicencio, Texas A&M University; Samuel D. Zapata, Texas A&M University*

**Get in the Zone: The Risk-Adjusted Welfare Effects of Data-Driven Approaches to Determine Index Insurance Zones**

*Elinor Benami, Virginia Tech; Andrew Hobbs, University of San Francisco; Zhenong Jin, University of Minnesota; Michael R. Carter, University of California, Davis*

**Dynamic Treatment Effects of Crop Insurance Participation Indicate Positive Impact on Agricultural Productivity**

*Micah Cameron-Harp, Kansas State University; Hunter D. Biram, University of Arkansas*

**Moral Hazard in Agricultural Insurance – Evidence from A Non-Voluntary Sow Insurance Program in China**

*Xudong Rao, North Dakota State University; Qingyin Cai, University of Minnesota - Twin Cities; Yuehua Zhang, Zhejiang University*

**Hedging Multiple Price Uncertainties in Soybean Export**

*Siun Lee, Texas A&M University; Dmitry Vedenov, Texas A&M University*

### **The Economics of Disasters**

Capitol Hill (M3)

#### **Selected Presentation**

Natural disasters impose large costs on society and individuals. This session includes a range of papers evaluating the impacts of natural disasters and evaluating adaptation strategies.

Moderator: Kunxin Zhu, The Ohio State University

**Food Bank Responses to Major Disasters**

*Yifan Peng, University of Illinois at Urbana-Champaign; Amy W. Ando, University of Illinois at Urbana-Champaign; Craig G. Gundersen, Baylor University*

**Household Water Rate Affordability by Income Levels and Population Trends**

*Sampriti Sarkar, Michigan State University; Frank Lupi, Michigan State University*

**Smoke and Yields: The Impact of Wildfires on Crop Yields in the U.S. Midwest**

*Arnold P. Behrer, The World Bank; Sherrie Wang, University of California, Berkeley*

**Mangroves Help Reduce the Impact of Climate-Induced Cyclones in India**

*Kunxin Zhu, The Ohio State University; Daniela A. Miteva, The Ohio State University; Sathya Gopalakrishnan, The Ohio State University*



## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

### **Regulatory Shifts Impacting Consumer Preference and Production Practice in the Retail Environment**

*Chinatown (M3)*

#### **Selected Presentation**

The dynamic regulatory environment of the food retailing sector is leading to challenges for producers. In addition, prices and market structure are also changing which has a significant effect on consumer preferences.

Moderator: Metin Çakir, University of Minnesota

**The Effectiveness of Misinformation Corrective Strategies and Implications for Consumers' Food Preferences and Policy Attitudes**

*Lin Lin, Michigan State University; David L. Ortega, Michigan State University; Jiayu Sun, Michigan State University*

**The Impact of Repealing Sunday Blue Laws on Alcohol Sales and Retail Competition**

*Cristina Connolly, University of Connecticut; Marcello Graziano, University of the Highlands and the Islands; Alyssa McDonnell, University of Connecticut; Sandro Steinbach, North Dakota State University*

**Impacts of Subnational Regulation of Production Practices for Foods Consumed Within the Jurisdiction: California's Proposition 12**

*Yuhan Wang, University of California, Davis; Zhiran Qin, University of California, Davis; Richard J. Sexton, University of California, Davis*

**Concentration in Food Retailing, Prices, and Inflation**

*Metin Çakir, University of Minnesota; Shawn Arita, USDA-Office of the Chief Economist; Joseph C. Cooper, USDA-Office of the Chief Economist; Xiao Dong, USDA-Economic Research Service; Rebecca L. Nemeç Boehm, USDA, Office of the Chief Economist; Ana Melissa M. Perez Castaño, University of Minnesota*

### **The Determinants and Effectiveness of SNAP**

*LeDroit Park (M3)*

#### **Selected Presentation**

More than 10 percent of the U.S. population currently participates in the Supplemental Nutrition Assistance Program (SNAP), while nearly 20 percent of eligible households are not enrolled in SNAP at any given time. The papers in this session evaluate how the availability of online purchasing affects SNAP-participating households, how the availability of nearby SNAP-authorized retailers affects SNAP program participation, and how researchers may arrive at different conclusions regarding the effectiveness of SNAP, depending on assumptions employed in data construction.

Moderator: Min-Fang Wei, University of Illinois at Urbana-Champaign

**The Impacts of Online Grocery Purchasing on SNAP Households**

*Kelsey Pukelis, Harvard Kennedy School*

**SNAP Online Purchasing and the Healthfulness of Food Purchases**

*Yizao Liu, The Pennsylvania State University; Jordan W. Jones, USDA-Economic Research Service; I-Hung Kuan, The Pennsylvania State University; Pei Zhou, The Pennsylvania State University*

**SNAP-Authorized Retailers and Program Participation**

*Qingxiao Li, Louisiana State University; Metin Çakir, University of Minnesota; Christian A. Gregory, USDA-Economic Research Service*

**Does the Choice of Eligibility Metric Influence the Relationship Between SNAP and Food Insecurity?**

*Min-Fang Wei, University of Illinois at Urbana-Champaign; Craig G. Gundersen, Baylor University*



## Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM

### International Development: Irrigation and Crop Insurance

Mount Vernon Square (M3)

#### Selected Presentation

Moderator: Jonathan G. Malacarne, University of Maine

An Indian Anti-Poverty Effort Improved Groundwater Recharge and Raised Groundwater Levels

Arnold P. Behrer, *The World Bank*; Hemant K. Pullabhotla, *Deakin University*

Control Over Future Payouts and Willingness-to-Pay for Insurance: Experimental Evidence from Kenyan Farmers

Berber Kramer, *IFPRI*; Carol Waweru, *IFPRI*; Jonathan G. Malacarne, *University of Maine*

Summing the Parts: How Does “bundling” Affect Willingness-to-Pay for Seeds and Insurance in a Sample of Kenyan Farmers?

Berber Kramer, *IFPRI*; Carol Waweru, *IFPRI*; Jonathan G. Malacarne, *University of Maine*

### Markets and Policy Lightning Session

Shaw (M3)

#### Selected Presentation-Lightning Session

This session includes a series of quick presentations representing cutting-edge research relevant to markets and policy. Attend this session to see a sampling of up-and-coming research findings in applied and agricultural economics.

Moderator: Patrese Anderson, University of California, Santa Barbara

Assessing the Accuracy of Proxies of Economic Activity

Prachi Jhamb, *University of Georgia*; Susana Ferreira, *University of Georgia*; Patrick R. Stephens, *Oklahoma State University*; Mekala Sundaram, *Oklahoma State University*; Jonathan Wilson, *University of Georgia*

Recovering from Natural Disaster Through Exports: The Case of 2010 Pakistan Flood and EU Tariff Waiver on Pakistan Textile Exports

Jisang Yu, *Kansas State University*; Arusha Ijaz, *Kansas State University*

The Impact of Natural Disasters on Informal Labor in Indonesia

Tomoko Utsumi, *Soka University*

Micro-Level Structural Poverty Maps for Southern and Eastern Africa

Elizabeth Tennant, *Cornell University*; Christopher B. Barrett, *Cornell University*; Yating Ru, *Cornell University*; Peizan Sheng, *University of Chicago*

The Impact of China’s Dynamic Zero-Covid Strategy on Rural Labor Migration

Hongyi Yuan, *University of Georgia*; Cesar L. Escalante, *University of Georgia*; Gentian Kostandini, *University of Georgia*

The Effectiveness of Agricultural Commercialization in Improving Food Security of Rural Population in Developing Countries

Qinye Jiang, *Texas A&M University*; Elizabeth Tabares Villarreal, *Borlaug Institute for International Agriculture*; Ariun Ishdorj, *Texas A&M University*; Siwan Song, *University of Wisconsin-Madison*; Roger Norton, *Texas A&M University*

Trade Policy, Retail Food Prices and Access to Healthy Diets in Africa and Worldwide

Rachel D. Gilbert, *Tufts University*; William A. Masters, *Tufts University*; Steven A. Block, *Tufts University*; Leah Costlow, *Tufts University*; Julia Matteson, *Tufts University*; Ekaterina Krivonos, *FAO*; Jakob Rauschendorfer, *Food and Agricultural Organization of the United Nations*

Combining Machine Learning and Market Integration to Improve Maize Price Predictions in Sub-Saharan Africa.

Patrese Anderson, *University of California, Santa Barbara*; Kathy Baylis, *University of California, Santa Barbara*; Frank Davenport, *University of California, Santa Barbara*; Shraddhanand Shukla, *University of California, Santa Barbara*





## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

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### **Production Economics - Lightning Session 1**

*Union Station (M3)*

#### **Selected Presentation-Lightning Session**

This session has research papers that focus on sustainable intensification and agricultural practices, estimation of biological capital, labor shortages and farmer adaptation strategies, and economic impacts of Bovine leukemia virus. The session also dwells on farmers' decisions on bee renting.

Moderator: Drew T. Frommelt, Michigan State University

#### **To (Rent) Bees Or Not to (Rent) Bees? An Examination of the Farmer's Question**

*Steven W. Wilcox, Utah State University; David R. Just, Cornell University; Miguel I. Gomez, Cornell University; C. Y. Cynthia Lin Lawell, Cornell University; Heather Grab, Cornell University*

#### **Sustainable Agricultural Practices and Crop Yield in China's Maize Production**

*Meili Huan, Tsinghua University; Fengxia Dong, USDA-Economic Research Service*

#### **A Global Sensitivity Analysis of the Price of Pesticide Resistance**

*Zachary S. Brown, North Carolina State University; Chanheung Cho, North Carolina State University; Hyeongyul Roh, Milken Institute; Kevin Gross, North Carolina State University; Daniel Tregeagle, North Carolina State University*

#### **Is Personalized Better? Digital Advisory and Productivity Differentials in Rice Farming in Nigeria**

*Eric S. Owusu, JIFSAN, University of Maryland; Aminou Arouna, Africa Rice (CGIAR); Clare A. Narrod, University of Maryland*

#### **Estimating Biological Capital: Application to Dairy Cows and Orange Orchards**

*Adauto B. Rocha Jr., University of Nebraska-Lincoln; Richard K. Perrin, University of Nebraska-Lincoln; Lilyan E. Fulginiti, University of Nebraska-Lincoln*

#### **Labor Shortages and Farmer Adaptation Strategies in California**

*Myat Thida Win, Michigan State University; Zachariah Rutledge, Michigan State University; Mywish K. Maredia, Michigan State University*

#### **The Economic Impact of Bovine Leukemia Virus in Michigan Dairies**

*Drew T. Frommelt, Michigan State University; Melissa G. S. McKendree, Michigan State University; Tasia M. Kendrick, Michigan State University*



## Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM

### Productivity Analysis and Emerging Technologies - Lightning Session 1

Salon 15 (M2)

#### Selected Presentation-Lightning Session

Productivity Analysis and Emerging Technologies - Economics of Adoption of New Technologies.

Moderator: Anna Massfeller, University of Bonn

#### Cover Crop Adoption and Climate Risks: An Application of Causal Random Forests

David T. Quigley, *The University of Texas at Arlington*; Yuyuan Che, *North Carolina State University*; Mahmut Yasar, *University of Texas*; Roderick M. Rejesus, *North Carolina State University*

#### Estimating the Effects of New Smartphone-Based Agricultural Service Adoption on Agricultural Productivity in Zhejiang Province

Ni Zhuo, *Zhejiang Academy of Agricultural Sciences*; Chen Ji, *Zhejiang University*; Baozhi Li, *Zhejiang Academy of Agricultural Sciences*; Qibiao Zhu, *Zhejiang Academy of Agricultural Sciences*; Songqing Jin, *Michigan State University*

#### Comparison of Rice Production Between Family Farms and Agricultural Corporations: A Cost-Benefit Analysis

Qi Dong, *Economic Research Institute for Northeast Asia*

#### Adoption of Ratoon Rice and Its Impact on Technical Efficiency of Rice Farming in China

Huaiyu Wang, *Beijing Institute of Technology*; Bing Bin, *Beijing Institute of Technology*; Valerien O. Pede, *International Rice Research Institute*

#### Drivers and Barriers to Adopting a Cover Cropping Technology Among Midwestern Farmers

Linghui Wu, *University of Illinois at Urbana-Champaign*; Madhu Khanna, *University of Illinois at Urbana-Champaign*; Shadi S. Atallah, *University of Illinois at Urbana-Champaign*

#### Paddy Farmers' Preference for Biofertilizers: Insights from the Indo-Gangetic Plains of India

Praveen K.V., *ICAR-Indian Agricultural Research Institute*; Alka Singh, *Indian Agricultural Research Institute, New Delhi*; Aditya KS, *IARI*

### Water Resources

Salon 14 (M2)

#### Selected Presentation

This section examines the challenges and impacts of water resource management. It provides insights into effective water resource management practices that account for climate change risks, market behaviors, and environmental concerns.

Moderator: Robert A. Hrozencik, *USDA-Economic Research Service*

#### Irrigation Choice Through Water Supply Augmentation in the Presence of Climate Risk and Uncertainty

Kent Kovacs, *University of Arkansas*; Dat Q. Tran, *University of California, Riverside*

#### State of Depletion: An Empirical Analysis of Groundwater Use on State Trust Lands

Mostafa Shartaj, *Colorado State University*; Jordan F. Suter, *Colorado State University*; Dale Manning, *Colorado State University*

#### Electricity Demand by the Irrigated Sector in Response to Climatic Shocks

Robert A. Hrozencik, *USDA-Economic Research Service*; Mani Rouhi Rad, *Texas A&M University*; Dilek Uz, *University of Nevada-Reno*



## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

### **Natural Capital Accounts and Environmental Economic Statistics**

*Holly (2nd Floor)*

#### **Track Session-Association of Environmental & Resource Economists and Land, Water, & Environmental Economics**

As outlined by the 2023 “National Strategy to Develop Statistics for Environmental-Economic Decisions,” the White House administration, in conjunction with other governmental agencies, facilitated the creation of a strategic plan to develop natural capital accounts and environmental-economic statistics. The strategy includes a gradual rollout of the accounts over the next ten years. The purpose is to account for the contribution of nature to domestic economic growth. The natural capital accounts will connect the existing national economic accounting system to measure changes in the economic value that natural assets provide to society. This session will host a panel of experts on natural capital accounting from across the federal government and the private sector. Experts will discuss foundations (including existing accounting within the European Commission), key data, methodological gaps, and efforts going forward.

Organizer: Wesley Burnett, USDA-Economics Research Service

Moderator: Wesley Burnett, USDA-Economics Research Service

Panelist: Kenneth Bagstad, Economist

*Kenneth J. Bagstad, U.S. Geological Survey*

Panelist: Scott Wentland, Research Economist

*Scott Wentland, Bureau of Economic Analysis*

Panelist: Steven Wallander, Economist

*Steven Wallander, USDA-Economic Research Service*

Panelist: Tania Briceno, Chief Economist

*Tania Briceno, Intrinsic Exchange Group*

### **Studying Climate Change Impacts from Different Methodological Perspectives**

*Cherry Blossom (2nd Floor)*

#### **Track Session-Econometrics Section and Agribusiness Economics & Management**

The IPCC report revamps the urgency of its message to adapt to the dire conditions of a warming planet, forcing governments to evaluate adaptation and mitigation measures. To provide an outlook on agriculture and trade, practitioners employ several methodological techniques. This track session brings together experts that employ diverse tools to study climate change damages on agriculture and agricultural trade. The first presentation uses Bayesian Data Analysis to narrow down climate damages at the county level. The second study leverages on the body of findings on the interaction of climate change, agriculture and trade with a Meta Analysis. The third presenter explores the econometric limitations encountered in the study of climate change by accounting for farmers’ mitigation strategies. The final presentation combines a spatial econometrics technique with general equilibrium models to simultaneously study climate change and its implications for trade.

Organizer: Noé J. Nava, USDA

**Heterogeneous Patterns of Crop Yield Growth Stagnation Across U.S. Counties in the Next Decade**

*Noé J. Nava, USDA*

**What do the 235 Estimates from the Literature Tell US About the Impact of Weather on Agricultural and Food Trade Floods**

*William Ridley, University of Illinois at Urbana-Champaign; Tava Magalhaes Vital, Universidade Federal De Juiz De Fora; Sandy Dall’Erba, University of Illinois at Urbana-Champaign; Xianning Wang, Chongqing Normal University*

**Decomposing the Changing Weather-Yield Response: The Effects of Climate Adaptation and Technological Change**

*Matthew Gammans, Michigan State University*

**Estimating Market and Trade Impacts from Climate-Induced Corn and Soybean Yield Changes in the U.S.**

*Jayson F. Beckman, USDA-Economic Research Service; Noé J. Nava, USDA; Maros Ivanic, USDA-Economic Research Service*



## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

### **Creative Assignments in the Classroom (e.g., Social Media, Podcasts, Videos, Music, 3-D printing)**

*Magnolia (2nd Floor)*

#### **Graduate Student Section and Teaching, Learning, & Communications Section**

There are many ways we may try to motivate our students, one of them being creative assignments. Creative assignments can increase student engagement and encourage students to generate new and innovative ideas. In this session, we will present assignments that use social media platforms and popular TV shows. Presenters will discuss the successes and challenges around their assignments, share assignment material, and involve the audience in a discussion of additional innovative assignment design.

Organizers: Katherine M. Lacy, University of Nevada, Reno; Julianne Treme, North Carolina State University

#### **TikTok Video Projects in Principles Classes**

*Katherine M. Lacy, University of Nevada, Reno*

#### **Learning Excel by Creating TikTok Videos**

*Julianne Treme, North Carolina State University*

#### **Fight Promotion to Understand Contentious Business Issues**

*Stanley C. Ernst, The Pennsylvania State University*

#### **Shark Tank: Elevator Pitches to Learn Innovation & Entrepreneurship**

*Christiane Schroeter, California Poly - San Luis Obispo*

### **The Economic Effects of Citrus Greening Disease on U.S. Growers and Consumers**

*Silver Linden (2nd Floor)*

#### **Track Session-Specialty Crop Economics and Applied Risk Analysis**

Huanglangbing (HLB), also referred to as citrus greening disease, has had an unprecedented effect on the U.S. Citrus industry. This bacterial disease which has no known cure gained a foothold in the State of Florida in 2005, which has since seen a 75 percent decline in citrus production levels. An estimated 400 million federal research dollars have gone towards citrus greening research, and growers in Florida, California, Texas, and other citrus growing regions have had to implement new management strategies to reduce the risk of infection to their orchards and mitigate the effects of the disease on tree health and production levels. Researchers from across the country present economic analyses of citrus producers' management strategies, firm profitability, and industry longevity in the context of an industry heavily impacted by a devastating disease.

Organizer: Skyler M. Simnitt, USDA-Economic Research Service

Moderator: Skyler M. Simnitt, USDA-Economic Research Service

#### **Citrus Greening 18 Years and Counting**

*Fritz M. Roka, Florida Gulf Coast University; Skyler M. Simnitt, USDA-Economic Research Service*

#### **Freeze, Disease Or Realities? Hypotheses on Decreases in Florida's Citrus Acreage**

*Gregory M. Astill, USDA-Economic Research Service; Carlos Andrade, USDA-Economic Research Service; Skyler M. Simnitt, Economic Research Service*

#### **Price and Welfare Changes Due to Citrus Industry Shocks Using an Equilibrium Displacement Model**

*Zoë Plakias, Western Washington University; Daniel Tregeagle, North Carolina State University*

#### **The Cost of Containment: An Economic Analysis of the California Citrus Industry's Response to Citrus Greening Disease**

*Brittney K. Goodrich, University of California, Davis; Jisang Yu, Kansas State University*



## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

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### **Best Practices for Conducting and Publishing Experiments in Agricultural and Food Economics**

*Catholic University (M1)*

#### **Track Session-Experimental Economics and Institutional & Behavioral Economics Section**

Some of the great challenges of Western societies revolve around sustainable consumption and healthy food choices. Experiments offer a methodology to understand the behavioral drivers of economic outcomes while controlling for the potential confounds in observational data. While the interest of agricultural and applied economists in these approaches have grown increasingly popular, the number of experimental papers published in lead journals has been decreasing for years. This panel brings together leading researchers and editors to provide insights for best practices and advice for successfully conducting and publishing experimental research in agricultural economics and other in leading journals in the field.

Organizers: Carola Grebitus, Arizona State University; Marco A. Palma, Texas A&M University

Moderator: Carola Grebitus, Arizona State University

Panelist: Awudu Abdulai

*Awudu Abdulai, University of Kiel*

Panelist: Vincenzina Caputo

*Vincenzina Caputo, Michigan State University*

Panelist: Wuyang Hu

*Wuyang Hu, The Ohio State University*

Panelist: David Just

*David R. Just, Cornell University*

Panelist: Jayson Lusk

*Jayson L. Lusk, Purdue University*

Panelist: Rodolfo M. Nayga Jr.,

*Rodolfo M. Nayga Jr., Texas A&M University*



## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

### **Empirical Studies in Alcoholic Beverages Industries**

*Gallaudet University (M1)*

#### **Track Session-Brewing & Enology Economic Research**

Around 63 percent of U.S. adults report they regularly drink alcohol in 2022 according to Gallup survey data (Gallup, 2022). Empirical literature on alcoholic beverages is growing and the impacts of program evaluations (business strategies and public policies) on consumption are hot topics. This session compiles four presentations that add to this active literature. First presentation examines the impact of Berkeley, California soda tax event on beer purchases using retail scanner data. Second presentation examines the spatial competition between grocery and liquor stores under different alcohol distribution regimes across the U.S. states. Third presentation studies positive spillovers from generic advertising in the U.S. craft beer market using a model-based approach. Fourth presentation explores whether employment in restaurant industry affects alcohol consumption at home.

Organizers: Ezgi Cengiz, North Carolina State University; Michael P. McCullough, California Polytechnic State University

Moderators: Ezgi Cengiz, North Carolina State University; Michael P. McCullough, California Polytechnic State University

#### **The Unintended Consequences of Sugar-Sweetened Beverage Taxes on Sales and Prices of Beer Beverages**

*Lei Pan, North Carolina State University; Xiaoyong Zheng, North Carolina State University*

#### **Co-Location and Spatial Competition in Alcohol Retail Market Under Different Distribution Policy Regimes**

*Siwei Gao, Colorado State University; Alessandro Bonanno, Colorado State University; Marco Costanigro, Colorado State University*

#### **Advertising in the U.S. Craft Beer Market**

*Sriparna Goswami, Iowa State University; Donghyuk Kim, Iowa State University*

#### **Does Occupation Affect Alcohol Consumption? Evidence from Restaurant Workers**

*Ezgi Cengiz, North Carolina State University; Bhagyashree Katare, Purdue University*

### **Understanding Demand Side Drivers of Global Food Security**

*George Washington University (M1)*

#### **Track Session-Committee on the Opportunities & Status of Blacks in Agricultural Economics and Committee on Women in Agricultural Economics**

The question of income growth and demand convergence has received considerable attention from a macroeconomic perspective, but implications for global food demand have not been extensively examined. In this session, we will examine global food demand and security across countries, with a particular focus on developing countries. The first presentation examines food import demand in the Caribbean, assessing the effects of income and prices and policy implications for future food needs. The second presentation analyzes USDA global food security estimates and the role of caloric thresholds in predicting future food needs. The final presentation presents estimates of key demand indicators (e.g., marginal propensities to consume, elasticities) across countries and their change over time. An understanding of global demand and trends and the ability to predict potential demand shifts for different foods are invaluable for assessing future food needs.

Organizer: Andrew Muhammad, University of Tennessee

#### **Dynamic Analysis of Caribbean Food Import Demand**

*David A. Forgenie, The University of the West Indies, St Augustine Campus; Sharon D. Hutchinson, The University of the West Indies; Andrew Muhammad, University of Tennessee*

#### **Global Food Security Estimation: Refining the IFSA Caloric Threshold Using Census Data**

*Lila Cardell, USDA-Economic Research Service; Yacob A. Zereyesus, USDA - Economic Research Service; Britta Schumacher, US Census Bureau; Constanza Valdes, USDA-Economic Research Service*

#### **How Income Growth and Prices Influence Food Spending and Intakes Across Countries Over Time**

*Andrew Muhammad, University of Tennessee; Anthony Baffoe-Bonnie, Texas A&M University; Md Deluair Hossen, University of Tennessee, Knoxville; Savant Nzayiramy, University of Tennessee, Knoxville*



## **Concurrent Sessions ★ Monday, 2:45 PM - 4:15 PM**

### **Exploring the Effects of Taxes and Labeling on Food and Beverage Purchases**

*Scarlet Oak (2nd Floor)*

#### **Track Session-Food & Agricultural Marketing Policy Section and Food Safety & Nutrition Section**

Policy makers use various strategies to influence consumer food choices. Taxes, subsidies, and labels that provide information on health or production attributes of products affect consumer purchase decisions. The four papers in this session explore the effects of tax and labeling strategies on consumer and firm behavior. Specifically, they investigate: 1) how effective are taxes and health warning labels at discouraging sugar-sweetened beverage purchases, 2) how can taxes on ultra-processed food and subsidies for unprocessed foods be used to support healthier diets among low-income households, 3) does FDA's proposed rule for when food can be labeled as "healthy" align with consumer perceptions and what is the communication value of the "healthy" symbol FDA is developing, 4) how much are consumers willing to pay for cereals labeled USDA Organic and Non-GMO and how do cereal manufacturers choose a particular labeling strategy.

Organizers: Mary K. Muth, RTI International; Dallas W. Wood, RTI International

Moderator: Abigail M. Okrent, USDA-Economic Research Service

#### **Examining the Effects of Taxes and Health Warning Labels on Parents' Purchases of Sugar-Sweetened Beverages Using a Discrete Choice Experiment**

*Dallas W. Wood, RTI International; Jim Krieger, University of Washington; Mary K. Muth, RTI International; Marissa Hall, UNC Chapel Hill; Erin Love, RTI International; Acelynn G. Barefoot, RTI International*

#### **Supporting Healthier Diets Equitably: Taxing Unhealthy Ultra-Processed Products While Subsidizing Unprocessed and Minimally Processed Foods Among the Poor**

*Pourya Valizadeh, Texas A&M University; Shu Wen Ng, University of North Carolina, Chapel Hill*

#### **Consumer Perceptions of "Healthy" and the FDA "Healthy" Symbol**

*Brandon R. McFadden, University of Arkansas; Brenna Ellison, University of Illinois at Champaign Urbana*

#### **The Economics of Multi-Labeling in the Food Industry: Evidence from Certified Organic and Non-GMO Labels**

*Lingxiao Wang, University of Wisconsin-Madison; Wenying Li, Auburn University; Yuqing Zheng, University of Kentucky*

### **Bridging U.S. and International Research on Food Security, Food Prices and Access to Healthy, Sustainable Diets**

*Dogwood (2nd Floor)*

#### **Track Session-International Section and Food Safety, & Nutrition Section**

Analyses of retail food prices, incomes and other influences on food consumption are increasingly able to look beyond effective demand to address nonmarket aspects of food security and food choice, guiding policy towards universal access to healthy diets with lower environmental costs. A key feature of this work is similarities and differences in work being done with US data driven by domestic policy concerns such as the White House Conference on Hunger, Nutrition and Health, and work done internationally with the World Bank, the FAO and other UN agencies for global food systems governance. This session aims to advance dialogue between domestically- and internationally focused researchers, with presentations and discussion of frontier work of relevance to each other.

Organizer: William A. Masters, Tufts University

Discussant: Linlin Fan, The Pennsylvania State University

#### **Equity in Access to Healthy Diets: Bridging Research in the U.S. and Globally**

*Kate R. Schneider, Johns Hopkins University, School of Advanced International Studies*

#### **Inferring Long-Run Trends in U.S. Household Food Security: A Structural Approach Using Current Population Survey Data and the Panel Study of Income Dynamics, 1968-2019**

*Matthew P. Rabbitt, USDA-Economic Research Service; M. Taylor Rhodes, Oregon State University*

#### **Retail Prices and Food Attributes: Are Healthier, More Sustainable Foods Also More Expensive?**

*Elena M. Martinez, Tufts University; William A. Masters, Tufts University*



## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

### **On the Use of Machine Learning and Big Data in Agriculture/Food Marketing and Policy**

Salons 6-10 (M2)

#### **Invited Paper**

The use of machine-learning methods offers great potential for expanding applied economics studies. This session highlights key findings from three studies utilizing machine learning/big data in the food economics and policy space. We hope this session will motivate further research to apply machine learning and big data in food/agricultural economics and policy studies to answer pressing societal research questions.

Discussant: Riccardo Scarpa, Durham University

**Using Machine-Learning Methods in Meta-Analyses: An Empirical Application on Consumer Acceptance of Meat Alternatives**

*Jiayu Sun, Michigan State University; Vincenzina Caputo, Michigan State University; Hannah Taylor, USDA-Economic Research Service*

**Machine Learning for Heterogeneity in the SNAP Benefit Cycle**

*James M. Sears, Michigan State University*

**Seeing Is Influencing: Photo Content Analysis of Social Media Influencers' Restaurant Reviews**

*Liang Lu, University of Idaho*

### **The Role of Trust in Promoting Sustainably Sourced Foods**

Salon 13 (M2)

#### **Organized Symposium**

Consumer preferences for and acceptance of sustainably sourced foods remain complex due to their heterogeneous nature. The declining trust in food systems worldwide makes it challenging for policymakers and marketers to communicate effectively with consumers about the food technologies associated with sustainability initiatives. This symposium facilitates constructive discussions on trust issues and agrifood institutions underpinning trust from an international perspective.

Organizer: Lijun Chen, University of Florida

Moderators: Zhifeng Gao, University of Florida; Lisa A. House, University of Florida

Panelists: Lijun Chen, University of Florida; Klaus G. Grunert, Aarhus University; Monika Hartmann, University of Bonn; Harvey S. James, University of Missouri; Marco A. Palma, Texas A&M University

### **Forecasting Food and Commodity Prices: Mastering Techniques, Managing Uncertainties and Communicating to Stakeholders**

Salon 12 (M2)

#### **Organized Symposium**

Experts will gather at this symposium on food and commodity price forecasting to discuss forecasting methods, factor weighting, and managing uncertainties. The symposium will delve into the key challenges of accurately forecasting food and commodity prices, and examine the impact of technology and data analytics on future forecasting. Discussions will also cover effective communication of forecasts to the public and industry stakeholders and ways to simplify forecast information for a non-technical audience.

Organizer: Simon Somogyi, University of Guelph

Moderator: Simon Somogyi, University of Guelph

Panelists: Raghav Goyal, Louisiana State University; Ethan Jackson, Chain ML; Matthew J. MacLachlan, USDA-Economic Research Service Market and Trade Economics Division; Simon Somogyi, University of Guelph





## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

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### **The New Era of Food: Short- and Long-term Changes in the Food System After COVID-19**

Salon 14 (M2)

#### **Organized Symposium**

The onset of the COVID-19 pandemic changed the way we acquired our food and ate in 2020, and some of those changes have persisted even as lockdowns have lifted in the U.S. and around the globe. This session will focus on those changes and how we use economic research to better understand them. Researchers from academia and government will present research highlights and lead discussions on this topic, with their findings introduced and summarized by Dawn Thilmany, a notable expert who has tracked innovation in food systems in our field for the past three decades. This session is specifically designed for emerging scholars whose careers will be shaped by changes and innovations in food systems.

Organizer: Anne T. Byrne, USDA-Economic Research Service

Discussant: Dawn D. Thilmany McFadden, Colorado State University

Panelists: Mackenzie Gill, Colorado State University; Katherine Harris-Lagoudakis, Iowa State University; Keenan Marchesi, USDA-Economic Research Service; Faith Parum, Texas A&M University; Wilson J. Sinclair, USDA-Economic Research Service

### **Best Practices in Policy Communication**

Scarlet Oak (2nd Floor)

#### **Track Session-Community & Regional Economics Network and Graduate Student Section**

Policy communication is an important facet of agricultural economics. Researchers need to develop and practice strong communication skills to keep our work accessible to decision makers and a diverse group of stakeholders. In this session, we will hear from policymakers about best practices in translating research for policy communication and from researchers with experience and expertise in policy communication.

Organizers: Megan N. Hughes, Purdue University; Sarah A. Low, University of Illinois at Urbana-Champaign

Moderators: Megan N. Hughes, Purdue University; Sarah A. Low, University of Illinois at Urbana-Champaign

#### **Panelist Representing USDA Decision Makers**

*Seth D. Meyer, USDA*

#### **Manages Economic Researchers Who Communicate With Decision Makers**

*Tom Worth, USDA-Risk Management Agency*

#### **Researcher With Significant Policy Communication Experience**

*Jane M. Kolodinsky, University of Vermont*

#### **Panelist Representing Hill Staffers**

*Rosalyn Brummette, Policy Advisor for U.S. Senator Michael F. Bennet*



## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

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### **Assessing the Land Use Change Consequence of Land-based Activities and Policies**

*Catholic University (M1)*

#### **Track Session-Land, Water, & Environmental Economics Section and Association of Environmental & Resource Economists**

The land sector is critical for climate policy as agriculture, forestry, and other land use together contribute to 20% to 25% greenhouse gas emission. Native vegetation and soils are the largest terrestrial reservoir of carbon. A growing body of research has focused on evaluating the land use change emissions associated with land-based mitigation activities. However, publics and decision-makers are often confused by a wide variation in estimates as studies applied different model parameter choices and various model structures to represent complex land-climate interconnections. This session aims at narrowing this research gap by identifying the key factors that should be incorporated into the analysis framework (e. g. policy-induced indirect land use change or uncertainties from data) and introducing approaches to improve current modeling works to address future policy-relevant questions at both domestic and global scales.

Organizer: Yuanyao Stanley Lee, RTI International

Moderator: Alice Favero, Georgia Institute of Technology

#### **Uncertainties in Modeling Land Use Change Due to Biofuels and Implications for Their GHG Reduction Potential**

*Madhu Khanna, University of Illinois at Urbana-Champaign*

#### **Large-Scale Biomass Supply: Trade-Offs Across Agricultural Futures**

*Ronald D. Sands, USDA-Economic Research Service*

#### **Potential for Complements and Supplements Across Land-Based Mitigation Activities**

*Christopher M. Wade, RTI International*

#### **Evaluating the Land Use Change Emissions Associated with Renewable Fuels**

*Chris Ramig, U.S. EPA Transportation & Climate Division*



## Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM

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### Underserved Producers of America

Magnolia (2nd Floor)

#### Track Session-Committee on the Opportunities & Status of Blacks in Agricultural Economics and Agricultural Finance & Management

This session will examine different aspects related to Socially Disadvantaged Farmers and Ranchers (SDFR) of America. The first presentation will examine the direct government payments to minority producers from the recent ad hoc programs. Government payments from standing farm bill and ad hoc programs provide crucial financial support to U.S. producers, including socially disadvantaged farmers and ranchers. The second presentation will highlight the current status of operator characteristics and financial performance of African American farms. The third presentation will analyze the forgiveness rate of the Paycheck Protection Program (PPP) loans by race. The SBA with help from the Treasury using the authority under multiple COVID-19 bills made forgivable PPP loans. However, the unforgiven PPP loan amount turns into a low-cost loan which could increase debt levels of farm operations. The fourth presentation will explain racial and ethnic differences in the use of federal agricultural programs.

Organizer: Anil K. Giri, USDA-Economic Research Service

#### Analysis of the Payments from the Coronavirus Food Assistance Program and the Market Facilitation Program

Anil K. Giri, USDA-Economic Research Service; Dipak Subedi, USDA - Economic Research Service; Kathleen M. Kassel, USDA Econ Research Svc

#### The Relative Financial Performance of African American Farms in the United States Since the Great Recession

LaPorchia A. Collins, USDA-Economic Research Service; Tia M. McDonald, USDA-Economic Research Service; Anil K. Giri, USDA-Economic Research Service; Dipak Subedi, USDA-Economic Research Service

#### Have the Forgivable Paycheck Protection Program (PPP) Loans Been Forgiven? An Analysis of the Farm Sector PPP Loans Focused on Race.

Dipak Subedi, USDA - Economic Research Service; Anil K. Giri, USDA-Economic Research Service; Ashok K. Mishra, Arizona State University; Rudra Baral, Kansas State University

#### Explaining Race and Ethnicity Differences in the Use of Federal Agricultural Programs

Nigel D. Key, USDA-Economic Research Service; Boris E. Bravo-Ureta, University of Connecticut; Michee A. Lachaud, Florida Agricultural and Mechanical University; Eric Njuki, USDA-Economic Research Service



## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

### **Market Power and Competition in Agribusiness**

*Judiciary Square (M3)*

#### **Selected Presentation-Lightning Session**

The business and economic aspects of the agriculture industry.

Moderator: Jeremy D. Foltz, University of Wisconsin

#### **Assessment of Pet Food Demand Structure: Implications for Agribusiness Management and Marketing Strategies**

*Lonnie Hobbs Jr., Kansas State University; Aleksan Shanoyan, Kansas State University; Vardges Hovhannisyann, University of Wyoming; Greg Aldrich, Kansas State University*

#### **Cross-Platforms Merger Effects**

*Ujjwol Paudel, Arizona State University*

#### **Evolution of Entry Into U.S. Food Retailing: Implications for Local Competition**

*Rigoberto A. Lopez, University of Connecticut; Sandro Steinbach, North Dakota State University; Mengjie Li, University of Connecticut*

#### **Licensing in the Agri-Food System: The Role of Cooperatives**

*Ahmed Chennak, University of Nebraska-Lincoln; Konstantinos Giannakas, University of Nebraska-Lincoln*

#### **Market Power in the Florida Orange Juice Processing Industry**

*Samiul Haque, University of Florida, GCREC; AbdelMalek Hammami, University of Florida- GCREC; Tian Xia, Kansas State University; Zhengfei Guan, University of Florida*

#### **Cooperative Finance: Signaling Risk With Investment and Retained Earnings**

*Julien Cadot, ISG International Business School; Arnaud Féral, ISG Paris*

#### **Market Power and Profitability of Organic Versus Conventional Dairy Farmers in the EU**

*Stefan Hirsch, University of Hohenheim; Maximilian Koppenberg, University of Hohenheim*

#### **The Determinants of Dairy Farm Exit in Wisconsin**

*Jeremy D. Foltz, University of Wisconsin-Madison; Talita Silva, University of Wisconsin-Madison*

### **Agricultural Policy - Climate, Carbon, and Conservation**

*Howard University (M1)*

#### **Selected Presentation**

Four select papers discussing carbon, conservation, and climate. Cost of Carbon Farming. Willingness to Accept Carbon Farming. Carbon Taxes. Wetland Easements.

Moderator: Iman Haqiqi, Purdue University

#### **The Effects of Wetland Easements on Agricultural Yields**

*Nicole Karwowski, University of Wisconsin-Madison*

#### **The Cost of Carbon Farming to Decarbonize the Economy**

*Fahd Majeed, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign; Ruiqing Miao, Auburn University; Guan Kaiyu, University of Illinois at Urbana-Champaign; Jeffery Kent, University of Idaho*

#### **Factors Affecting Farmers' Willingness to Accept for Carbon Farming in the U.S. Midwest**

*Tong Wang, South Dakota State University; Hailong Jin, South Dakota State University; David E. Clay, South Dakota State University*

**Quantifying the Uncertainties in Estimating the Heterogeneous Effects of Carbon Taxes on Labor, Land, Water, and Fertilizer Use in U.S. Agriculture**

*Iman Haqiqi, Purdue University*



## Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM

### Behavioral and Institutional Economics - Paper Session 1

Georgetown University (M1)

#### Selected Presentation

Papers in this session demonstrate how the application of behavioral economics can improve consumer and producer well-being in both lab and field studies.

Moderator: Maria Fay Rola-Rubzen, University of Western Australia

Motivated Reasoning, Biased Beliefs, and Consumer Valuations of Vegetable Labels in Vietnam

Sean F. Kiely, *The University of California, Davis*; Kristin Kiesel, *University of California, Davis*

The Impacts of an Employment Offer on the Aspirations of Rural Youth: Experimental Evidence from Kenya

Wyatt Pracht, *Purdue University*; Jacob Ricker-Gilbert, *Purdue University*

The Impact of Endogenous and Exogenous Factors on Farmer Willingness-to-Pay for Biofortified Bean Seed: A Field Experiment in Rural Zimbabwe

Caitlin L. Herrington, *Michigan State University*; Mywish K. Maredia, *Michigan State University*; David L. Ortega, *Michigan State University*; Byron A. Reyes, *CIAT*

Nudging Via Text Reminders: Can Behavioural Economics Increase the Adoption of Conservation Agriculture-Based Sustainable Intensification Technologies in South Asia?

Maria Fay Rola-Rubzen, *University of Western Australia*; Jon Marx Sarmiento, *University of Western Australia*; Renato A. Villano, *University of New England Armidale*; Roy Murray-Prior, *University of Western Australia*; Md. Farid Uddin Khan, *Rajshahi University*; Md Mahafuj Alam, *RDRS Bangladesh*; Krishna Prasad Timsina, *Nepal Agricultural Research Council*; Kalyan K. Das, *Uttar Banga Krishi Vishwavidyalaya*

### Environmental Economics

Dupont Circle (M3)

#### Selected Presentation-Lightning Session

This session gathers studies that broadly advance the field of environmental economics.

Moderator: Md Tahsin Hasan, University of Rhode Island

Examining the Nexus Between Exporting Status and CO2 Productivity in Indonesian Agro-Based Manufacturing

Putriesti Mandasari, *Washington State University*; Jeff Luckstead, *Washington State University*

Peer Effects in Climate Change Beliefs

Xialing Zhao, *The Pennsylvania State University*; Linlin Fan, *The Pennsylvania State University*; Yilan Xu, *University of Illinois at Urbana-Champaign*

The Impact of China's Horizontal Ecological Compensation Program on the Water Quality of Cross-Provincial Rivers

Yutian Wang, *Huazhong Agricultural University*; Xuan Chen, *Huazhong Agricultural University*; Longzhong Shi, *Huazhong Agricultural University*

Environmental Impact of 2011 Germany's Nuclear Shutdown: A Synthetic Control Study

Jing Li, *Miami University*; Bryanna Renuart, *Miami University*

The Impact of Natural Hazards on Local Communities Through Changes in Homeownership

Kunxin Zhu, *The Ohio State University*; Sathya Gopalakrishnan, *The Ohio State University*

Reminders Can Reduce Plastic Bag Use: Evidence from a Pilot Field Experiment in Bangladesh

Emi Uchida, *University of Rhode Island*; Md Tahsin Hasan, *University of Rhode Island*



## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

### **Climate, Land, and Agriculture**

Salon 15 (M2)

#### **Selected Presentation**

This session includes four papers focusing on the impact of climate change on agricultural production and land use. Each paper empirically evaluates the impact of weather and climate shocks in a distinct agricultural context.

Moderator: Rebecca S. Epanchin-Niell, University of Maryland, College Park

#### **Extreme Heat and Livestock Production: Costs and Adaptation in the U.S. Dairy Sector**

*Jared P. Hutchins, University of Illinois at Urbana-Champaign; Derek Nolan, University of Illinois at Urbana-Champaign; Marin Skidmore, University of Wisconsin - Madison*

#### **Climate Change Impacts on U.S. Dairy Production: Evidence from 8 Million Cows**

*Ziyi Lin, Cornell University; Ariel Ortiz-Bobea, Cornell University; Christopher A. Wolf, Cornell University; Kristan Foster Reed, Cornell University*

#### **Economic Impact of Groundwater Regulation in Nebraska: A Hedonic Price Analysis**

*Aakanksha Melkani, University of Nebraska-Lincoln; Taro Mieno, University of Nebraska-Lincoln; Robert A. Hrozencik, USDA-Economic Research Service; Renata Rimsaite, University of Nebraska-Lincoln; Nick Brozovic, University of Nebraska-Lincoln; Shunkei Kakimoto, University of Nebraska-Lincoln*

#### **Coastal Agricultural Land Use Response to Sea Level Rise and Saltwater Intrusion**

*Rebecca S. Epanchin-Niell, University of Maryland, College Park; Alexandra Thompson, Resources for the Future (RFF); Xianru Han, University of Maryland - College Park; Jessica Post, Environmental Protection Agency; Jarrod Miller, University of Delaware; David Newburn, University of Maryland; Keryn Gedan, George Washington University; Kate Tully, University of Maryland*

### **Challenges and Impacts of Food Supply Chains and Food Marketing Management**

Capitol Hill (M3)

#### **Selected Presentation**

Significant changes in the food retailing landscape necessitate novel approaches to examining food access across U.S. communities. The interconnected nature of agricultural food supply chains, including decisions made at the farmer level, can have downstream impacts for consumers and the resilience of the food supply chains.

Moderator: Charles C. Grigsby-Calage, University of Florida

#### **A Spatial Approach to Agri-Food Supply Chain Resiliency**

*Matthew Hockert, University of Minnesota, Twin Cities*

#### **Improving Wholesale Local Food Procurement: A Farmer Choice Experiment**

*Rebecca Wasserman-Olin, Colorado State University; Miguel I. Gomez, Cornell University; Todd M. Schmit, Cornell University; Thomas Bjoerkman, Cornell University*

#### **Does the Recent Food Price Inflation Differ by Store Format?**

*Metin Çakir, University of Minnesota; Qingyin Cai, University of Minnesota, Twin Cities; Xiao Dong, USDA-Economic Research Service*

#### **The Impact of Dollar Stores on Food Deserts: A Machine Learning Approach to Predict Counterfactuals**

*Charles C. Grigsby-Calage, University of Florida; Conner C. Mullally, University of Florida; Richard J. Volpe III, California Polytechnic State University*



## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

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### **The U.S. Food Retail Environment: Access, Prices, and Politics**

*Chinatown (M3)*

#### **Selected Presentation-Lightning Session**

The U.S. food retail environment varies greatly across different locations and can affect diet and health outcomes. Papers in this session explore food access, prices, the effect of the retail environment on food purchase decisions, the interactions between politics and the food environment. Specifically, the papers deal with topics including measuring food access; food retailer location decisions; how purchase decisions are affected by retailer format; price variation across time and space; the relationship between price and the healthfulness and environmental impact of food; and how state policies and politics affect the food retail environment.

Moderator: Shellye A. Suttles, Indiana University

#### **Moving Toward a Continuous Local Food Access Measure**

*Jeffrey H. Dorfman, University of Georgia; Jared D. Grant, University of Georgia; Craig G. Gundersen, Baylor University*

#### **Regional Predictors of the Establishment, Closure, and Relocation of Food Retailers in the Long Run**

*Syed Badruddoza, Texas Tech University; Modhurima D. Amin, Texas Tech University; Jill J. McCluskey, Washington State University; Wilson J. Sinclair, USDA-Economic Research Service*

#### **Determinants of the Presence, Density, and Popularity of U.S. Food Retailers**

*Syed Fuad, Texas Tech University; Syed Badruddoza, Texas Tech University; Modhurima D. Amin, Texas Tech University*

#### **Food Purchasing Decisions Along the Distribution of a Household Food Retail Health Quality Measure**

*Benjamin Scharadin, Colby College; Michele L. Ver Ploeg, George Washington University; Lauren Miller, USDA-Economic Research Service*

#### **Household Food Purchasing Behavior in Dollar Stores and Body Mass Index, 2010-2018**

*Wenhui Feng, Tufts University; Yongyi Pan, Tufts University; Yue Zhan, IFPRI; Elina T. Page, USDA-Economic Research Service; Sean B. Cash, Tufts University*

#### **Getting the Price Right: Analyzing and Comparing Food Prices Over Time and Space**

*Megan D. Sweitzer, USDA-Economic Research Service; Abigail M. Okrent, USDA-Economic Research Service; Chen Zhen, University of Georgia; Shawn A. Karns, Research Triangle Inst; Saki Kinney, RTI International; Mary K. Muth, RTI International; Anne T. Byrne, USDA-Economic Research Service*

#### **Retail Prices for Sustainable, Healthy Diets: Are Foods With Lower Environmental Impacts and Healthier Nutritional Profiles Also More Expensive?**

*Elena M. Martinez, Tufts University; Nicole T. Blackstone, Tufts University; William A. Masters, Tufts University; Parke E. Wilde, Tufts University*

#### **Understanding Variation in State Policy and Politics of U.S. Food Environments**

*Shellye A. Suttles, Indiana University; Andrea Silva, University of North Texas*



## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

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### **Production Factors in Development: Technology, Labor, Investment, and Weather**

*LeDroit Park (M3)*

#### **Selected Presentation-Lightning Session**

This lightning session consists of papers that test various factors that affect production and development outcomes. The topic ranges from technology adoption, investment, shocks, and uncertainty related to productivity, labor supply, and supply chain resilience.

Moderator: Sergio Puerto, Cornell University

**Technology Adoption, Agricultural Productivity, and Deforestation**

*Jeffrey R. Bloem, IFPRI*

**Intra-Spousal Labor Supply Responses to Price Shocks in Uganda**

*Peter Agamile, University of Washington*

**Mobile Money Service, Financial Inclusion, and Ag-Investment in Developing Countries: Evidence from Ghana**

*Frederick Nyanzu, University of Illinois at Urbana-Champaign; Kathy Baylis, University of California, Santa Barbara*

**Analyzing Food Price Movements Using Crowdsourced Data**

*Bailey Peterson-Wilhelm, Kansas State University; Benjamin Schwab, Kansas State University*

**Farmer Uncertainty and Demand for Rice Varietal Identity Information: DNA Fingerprinting of Smallholder Rice Varieties in Côte d'Ivoire**

*Nicholas Tyack, University of Saskatchewan; Aminou Arouna, AfricaRice (CGIAR); Nana Amoah, AfricaRice; Rachidi Aboudou, AfricaRice*

**Supply Chain Resilience to Extreme Weather: Evidence from Early Warning Systems**

*Aishwarya Venkat, Tufts University; William A. Masters, Tufts University*

**Agriculture, Innovation, and Development: What Happens When New Technology Is Not Good Enough?**

*Sergio Puerto, Cornell University*





## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

### **Production Economics - Lightning Session 2**

Shaw (M3)

#### **Selected Presentation-Lightning Session**

This session covers a variety of agricultural production research topics. These include impacts of climate change and adaptation on crop quality, optimizing pork production, ethanol capacity and cover crop use, weather stress and crop insurance, USDA-ERS REAP Modeling, stochastic dynamic models, and economics of GMOs and non-GMO. The session also covers risk and returns regarding payments of grazing practices for grassland bird habitat.

Moderator: Nicholas Gallagher, University of Wisconsin - Madison

#### **Different Tolerance of Corn and Soybean to Weather Stresses and Implications on Crop Insurance Subsidies' Distortion Effects**

*Yue Zhao, Iowa State University; David A. Hennessy, Iowa State University*

#### **Impacts of Climate Change and Adaptation on Crop Quality: Evidence from U.S. Soybean**

*Guang Tian, University of Wisconsin-Madison; Shawn Conley, university of Wisconsin-madison; Seth Naeve, University of Minnesota; Paul D. Mitchell, University of Wisconsin-Madison*

#### **The Economics and Productivity of GMO, NonGMO, and Organic Corn Production in Recent Years: Focusing on HT and Organic Trends in Corn Grain Production and Corn Production on Organic Dairies**

*Richard F. Nehring, USDA-Economic Research Service; Daniel Bonin, USDA-Economic Research Service; Samuel M. Bailey, USDA-Economic Research Service; Kelvin Leibold, Iowa State University Extension; Carolyn Dimitri, New York University*

#### **The Effect of Ethanol Capacity on Cover Crop Use in the Midwest**

*Sungmin Cheu, Michigan State University; Matthew Gammans, Michigan State University*

#### **Developing Imputed Cropping Systems Data from NRCS CEAP-NRI/APEX Data and Model for Input Into USDA-ERS REAP Model**

*Karen Maguire, USDA-Economic Research Service; Siwa M. Msangi, USDA-Economic Research Service; Nicholas Gallagher, University of Wisconsin - Madison; Javier Osorio-Leyton, Texas A&M University; Evelyn Steglich, USDA-Natural Resources Conservation Service; Chris Lester, USDA-Natural Resources Conservation Service; Marcel P. Aillery, USDA-Economic Research Service*

#### **Compensatory Growth, Capacity Constraints, and Market Timing: Optimizing Pork Production**

*Andrew W. Stevens, University of Wisconsin-Madison; Jean-Paul Chavas, University of Wisconsin-Madison; Thomas D. Crenshaw, University of Wisconsin-Madison*

#### **A Generalized Finite-Horizon Stochastic Dynamic Model of In-Season Farm Management to Capture Temporal Risk**

*Nicholas Gallagher, University of Wisconsin - Madison*



## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

### **Sources of Growth and Resilience for Rural Economies**

*Union Station (M3)*

#### **Selected Presentation**

This session features potential opportunities for growth and resilience for rural economies. Find out how increasing broadband speeds and cloud computing impact nonfarm exports, and how broadband access relates to agritourism in rural areas. Additional sessions evaluate how the increase in dollar stores and farmers markets impact rural markets and the rural economy.

Moderator: Mallory L. Rahe, University of Missouri

#### **Impact of Broadband Adoption on Agritourism Operations in the United States**

*Claudia Schmidt, The Pennsylvania State University; Luyi Han, The Pennsylvania State University; Arian Khaleghi Moghadam, Bloomsburg University; Stephan J. Goetz, The Pennsylvania State University*

#### **Internationalization of the Rural Nonfarm Economy and the Cloud: Evidence from US Firm-Level Export Data**

*Luyi Han, The Pennsylvania State University; Timothy R. Wojan, National Center for Science and Engineering Statistics; Stephan J. Goetz, The Pennsylvania State University*

#### **Dollar-Store Impact on Rural Economic Activity and Labor Markets**

*Lauren Chenarides, Arizona State University; Timothy J. Richards, Arizona State University; Zachariah Rutledge, Michigan State University; John L. Pender, USDA-Economic Research Service*

#### **Vendor Persistence and Sales Growth 2019-2021: Evidence from Five Rural Oregon Farmers Markets**

*Mallory L. Rahe, University of Missouri; Juo-Han Tsay, University of Missouri; Sarah A. Low, University of Illinois at Urbana-Champaign*

### **Export Policies, Staple Commodity Prices, and Global Food Security**

*Dogwood (2nd Floor)*

#### **Track Session-International Section and Senior Section**

In a recent World Economic Outlook, the IMF forecast that while food prices have corrected to their pre-war levels, there is still considerable upside risk despite renewed Ukrainian grain exports from the Black Sea. A key factor in their forecast is the possibility of renewed restrictions such as those imposed earlier this year by India on wheat exports and Indonesia on palm oil exports. In this context, this track session will address a set of connected issues: analysis of why export policies have been used and their economic impact; discussion of the extent to which commodity price increases pass through to food prices in emerging economies; analysis of whether global agricultural production can adapt to market shocks; and a discussion of WTO disciplines on the use of trade-distorting export policies.

Organizer: Ian M. Sheldon, The Ohio State University

Moderator: Amanda Countryman, Colorado State University

#### **Export Policies: Their Impact on Staple Commodity Prices**

*David LaBorde, FAO*

#### **Food Prices and Nutrition: Using Least-Cost Healthy Diets to Monitor and Improve Global Food Security**

*William A. Masters, Tufts University*

#### **Can Global Agricultural Production Adapt to Market Shocks?**

*Daniel A. Sumner, University of California, Davis*

#### **Where Is the WTO on Disciplining Export Policies**

*Robert Koopman, American University*



## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

### **Inside-Out Teaching Academy: Choices Inside the Classroom and the Impact Out in the “Real World”**

*Tulip (2nd Floor)*

#### **Track Session-Agribusiness Economics & Management and Teaching, Learning, & Communications Section**

Adequately preparing students for careers outside the classroom is heavily dependent on the choices made inside the classroom by the instructor. This session is proposed in effort to support graduate students, early career faculty, and seasoned faculty, with examples of inclusive and experiential evidence-based pedagogical practices, teaching methods, and learning tools that can enhance undergraduate and graduate education in the applied economics and agribusiness profession. This session is comprised of three early career faculty and one more senior member, all of whom have extensive teaching responsibilities. The session will provide examples of practical skills and tools that participants can use in their classrooms and increase awareness of discipline-oriented teaching resources. All of the speakers in this session have been recognized for their teaching, with several regional and national teaching awards between them.

Organizer: Hannah Elizabeth Shear, Oklahoma State University

#### **Building Relationships in the Classroom With Inclusivity and Flexibility**

*Hannah Elizabeth Shear, Oklahoma State University*

#### **Coding, Communication, and Conduct: An Undergraduate Research Internship Experience**

*April Athnos, University of Arizona*

#### **Student See, Student Do, Student Teach: Collaborative and Active Learning in the Classroom**

*Chelsea J. Arnold, West Texas A&M University*

#### **Taskforce Meetings for Strategic Management Scenarios**

*Misti D. Sharp, University of Florida*

### **Understanding U.S. Biofuel Policy Using Modern Causal Inference Methods**

*Cherry Blossom (2nd Floor)*

#### **Track Session-Econometrics Section**

Assessing national-level policies and their heterogeneous local effects has been a challenging task for agricultural and applied economists. This proposed session focuses on the use of modern causal inference strategies in assessing the U.S. biofuel policy. The first presentation leverages the rich data on land-use from various sources and the fixed effects and instrumental variables approaches to identify the effect of the Renewable Fuel Standard on soybean and crop acreages. The second presentation utilizes a doubly-robust difference-in-differences (DID) method to estimate the impact of ethanol plants on cropland transition. The third presentation uses an extended two-way fixed effect model to estimate the impact of ethanol plant entry and the resulting local market structure on the spatial pattern of corn prices. Finally, the last presentation focuses on the impact of ethanol plants on farmland prices by utilizing an extended synthetic control method that allows the estimation of continuous treatments.

Organizer: Jisang Yu, Kansas State University

Moderator: Gabriel Sampson, Kansas State University

#### **The Impact of the Renewable Fuel Standard (RFS) Program on U.S. Soybean Acreage and Total Crop Acreage**

*Ruiqing Miao, Auburn University; Madhu Khanna, University of Illinois at Urbana-Champaign*

#### **Estimating the Local Impact of Ethanol Plants on Cropland Transitions**

*Nicholas J. Pates, University of Kentucky; Nathan P. Hendricks, Kansas State University; Tyler Lark, University of Wisconsin-Madison*

#### **Entry of Ethanol Plants, Local Market Structure, and the Spatial Pattern of Corn Prices**

*Juan Pablo Sesmero, Purdue University; Jinho Jung, Purdue University; Ralph Siebert, Purdue University*

#### **Causal Estimates on the Impact of Bio-Ethanol Plants on Farmland Prices**

*Gabriel Sampson, Kansas State University; Jisang Yu, Kansas State University*



## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

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### **Exploring the Effectiveness of Nudging Tools and Information Provision on Consumer Food Choice**

*Silver Linden (2nd Floor)*

#### **Track Session-Experimental Economics Section and Institutional & Behavioral Economics Section**

Developing effective mechanisms for altering consumer behavior is an important aspect of behavioral economics. In the context of food choices, it can be used to encourage desired behaviors such as healthy eating, reduced food waste, ethical/sustainable food choices, acceptance of novel food technologies, etc. Two major tools that have the potential to influence consumer behavior are nudging and information provision. Investigating the effectiveness of these methods across various food choice contexts will provide policy makers, marketers and other food industry stakeholders with insights to inform policy-making, awareness campaigns and marketing strategies. This lightning session includes eight papers which employ various experimental and behavioral techniques to examine the influence of informational and non-informational nudges on consumer preferences for various food products. The topics are relevant to AAEA participants and will promote valuable discussion.

Organizers: Shijun Gao, Arizona State University; Glory E. Okpiaifo, University of Florida

Moderator: Shijun Gao, Arizona State University

#### **Does the End Consumer Affect Sensitivity to Information for Gene Edited Products?**

*Anam Ali, Purdue University; Valerie Kilders, Purdue University*

#### **How do Drinking Location and Marketing Campaigns Affect Demand for Locally-Sourced Ingredients? Evidence from Michigan Beer Drinkers**

*Aaron J. Staples, Michigan State University*

#### **Effect of Images and Recipes on Goat Meat Consumption and Willingness to Pay**

*Meri Hambaryan, University of Florida; John Lai, University of Florida; Bachir Kassas, University of Florida*

#### **Are Consumers Willing to Pay for an FDA Healthy Label?**

*Katherine Fuller, Tufts University; Julia Reedy, Tufts University; Sean B. Cash, Tufts University; Dariush Mozaffarian, Tufts University*

#### **US Consumer Preferences for Different Quality Grade Labels**

*Shijun Gao, Arizona State University; Carola Grebitus, Arizona State University; Karen L. DeLong, University of Tennessee*

#### **The Influence of Framing Effects on Consumer Preference for Gene Editing**

*Glory E. Okpiaifo, University of Florida; Bachir Kassas, University of Florida; John Lai, University of Florida; Lisa A. House, University of Florida*

#### **Food Misinformation and the Effectiveness of Prebunking and Debunking Corrective Strategies**

*Lin Lin, Michigan State University; David L. Ortega, Michigan State University; Jiayu Sun, Michigan State University*

#### **Fish Without the Sea: Preferences for Cultivated Salmon and Policy Implications**

*Olesya Savchenko, University of Florida; Kelly A. Davidson, University of Delaware; John C. Bernard, University of Delaware; Abhishek Rajan, University of Florida*



## **Concurrent Sessions ★ Tuesday, 10:00 AM - 11:30 AM**

### **Farmland Price-Rent Surveys: Observations and Opportunities for Research-based Outreach**

*Gallaudet University (M1)*

#### **Track Session-Extension Section**

Across North America, agricultural economic departments conduct annual surveys to assess local farmland prices and cash rents. Administrators of these surveys are often questioned by stakeholders about how these rates are being determined and what rents should be. The character of this interest differs depending on whether the respondent is a farmer or landlord, or, in some cases, both. In addition, administrators of these surveys observe some common trends: e.g., lack of information about local rental rates by market participants, concerns about market structure, etc. In this track session two panelists, Brady Deaton and Todd Kuethe, discuss the surveys they administer (in Ontario and Indiana respectively) and key findings and observations. The third panelist, Gary Schnitkey discusses his extension efforts regarding rental rates, rental agreements, and the implications of both for farm budgeting.

Organizers: B. James Deaton Jr., University of Guelph; Todd H. Kuethe, Purdue University; Gary D. Schnitkey, University of Illinois at Urbana-Champaign

**Findings and Observations from the Ontario Farmland Value and Rental Survey**

*B. James Deaton Jr., University of Guelph*

**Findings and Observations from Purdue's Farmland Value and Cash Rent Survey**

*Todd H. Kuethe, Purdue University*

**Rental Rates and Rental Arrangements: Meaning, Measure, and Evolving Matters**

*Gary D. Schnitkey, University of Illinois at Urbana-Champaign*

### **SNAP Household Food Choices: Evidence Using Scanner Data**

*George Washington University (M1)*

#### **Track Session-Food & Agricultural Marketing Policy Section and Food Safety & Nutrition Section**

The Supplemental Nutrition Assistance Program (SNAP) provides millions of low-income households with supplemental income to have access to adequate food choices and, thus, alleviating food insecurity. This session examines SNAP households' food choices by utilizing scanner data in innovative ways. The discussion includes: a machine learning approach in predicting SNAP benefits receipt date using IRI-FoodAPS household scanner data; a food demand model for different food categories with varying healthfulness is developed for SNAP households by linking FoodAPS with IRI InfoScan retail scanner data; the impact of the growth of dollars stores on local food prices is analyzed by combining establishment-level information on the census of retailers and UPC-level point-of-sales information; and the geographic variation in SNAP purchasing power on nutritional quality of food choices is examined by linking Monthly Food-at-Home Price Database with IRI Consumer Network Data.

Organizer: Akash Issar, Texas A&M University

Moderator: Andrea C. Carlson, USDA- Economic Research Service

**Machine Learning Application in Predicting SNAP Benefits Date of Receipt Using IRI-FoodAPS Scanner Data.**

*Akash Issar, Texas A&M University; Travis A. Smith, University of Georgia; Christian A. Gregory, USDA-Economic Research Service*

**The Potential Impact of Food Restrictions Under the Supplemental Nutrition Assistance Program on Participants' Food Choices.**

*Chen Zhen, University of Georgia; Yun Fan, University of Georgia*

**Dollar Store Growth and Food Prices.**

*Metin Çakir, University of Minnesota; Lauren Chenarides, Arizona State University; Qingxiao Li, Louisiana State University; Timothy J. Richards, Arizona State University*

**SNAP Purchasing Power and Nutrition**

*Augustine Denteh, Tulane University; Farah Khan, Tulane University*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

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### **Racial Disparities in Agricultural Government Programs**

Salons 6-10 (M2)

#### **Invited Paper**

This session includes three papers that explore racial disparities in the following agricultural government programs: Farm Service Agency loans, the Homestead Acts of 1862 and 1866, and Market Facilitation Program Payments in 2018 and 2019. A discussant will provide broader perspectives on the paper and discuss areas in need for future work.

Organizer: Nathan P. Hendricks, Kansas State University

Moderator: Samantha Padilla, USDA-Economic Research Service

Discussant: Daniel A. Sumner, University of California, Davis

#### **The Impact of the County Office Committee Composition on Loan Delinquency Rates of African American Farmers**

Logan Moss, University of Arkansas; **Lawson Connor**, University of Arkansas; Bruce L. Ahrendsen, University of Arkansas; Charles B. Dodson, USDA-Farm Service Agency; Gianna Short, USDA FPAC-BC

#### **Explaining the Source of Racial Disparities in Market Facilitation Program (MFP) Payments**

Ashling M. Murphy, Kansas State University; **Nathan P. Hendricks**, Kansas State University; Samantha Padilla, USDA-Economic Research Service; Stephen N. Morgan, USDA-Economic Research Service; Nigel D. Key, USDA-Economic Research Service

#### **An Analysis of Tax Benefits by Race and Ethnicity for Farm Households**

Ron L. Durst, USDA-Economic Research Service; **Tia M. McDonald**, USDA-Economic Research Service

### **The Future of Agricultural Extension and Outlook within the Agricultural and Applied Economics Profession**

Salon 12 (M2)

#### **Organized Symposium**

What will be the future of Extension and Outlook faculty and USDA economists? This session will discuss challenges to the profession in staffing these positions as well as possible solutions.

Organizer: Susan E. Offutt, DCL Consulting

Moderator: Nick Paulson, University of Illinois at Urbana-Champaign

Panelists: Brian D. Adam, USDA-Economic Research Service; Brittney K. Goodrich, University of California, Davis; Joleen C. Hadrich, University of Minnesota; Jennifer Ifft, Kansas State University; Charles Martinez, University of Tennessee; Wendong Zhang, Cornell University



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

### **Measuring and Explaining Development Resilience in Africa**

*Scarlet Oak (2nd Floor)*

#### **Track Session-Africa Section and Committee on the Opportunities & Status of Blacks in Agricultural Economics**

This session brings together recent work on development resilience to explore the implications of alternative conceptualizations and measurement on the nature of analytical conclusions and policy recommendations. While reviews of these issues have been undertaken before, this session will contribute to the ongoing discussion by using recent case studies to investigate relatively unexplored questions, including: (i) how best to capture multiple dimensions of resilience, (ii) how to conceptualize resilience in geographical contexts of perennial food insecurity; and (iii) how to track the temporal and spatial distributions and evolution of resilience. This session will also feature some recent work on estimating multidimensional resilience in Africa.

Organizers: Jordan Chamberlin, International Maize and Wheat Improvement Center; Seungmin Lee, Cornell University

Discussants: Christopher B. Barrett, Cornell University; John Hoddinott, Cornell University

#### **Estimating Multidimensional Resilience**

*Seungmin Lee, Cornell University; Kibrom Abay, IFPRI; Christopher B. Barrett, Cornell University*

#### **The Geography of Household Resilience in Rural Ethiopia**

*Jordan Chamberlin, International Maize and Wheat Improvement Center*

#### **Measuring Economic Resilience: A Counterfactual Approach**

*Mo Alloush, Hamilton College; Michael R. Carter, University of California, Davis*

### **Adaptation to Climate Change Through International and Intra-national Trade**

*Tulip (2nd Floor)*

#### **Track Session-Africa Section**

Climate change is predicted to have heterogeneous effects on agricultural yields both across countries and across regions within countries. This session will highlight new research looking at how trade – both between and within countries – may propagate or offset the impact of predicted changes in local yields. To what extent would reducing trade costs and policy barriers help with adaptation to climate change? How important is it to account for internal geography and trade costs in evaluating the role of trade in adaptation? Two papers focus specifically on African countries, while a third takes a more global view.

Organizer: Obie C. Porteous, Middlebury College

Discussant: Thomas W. Hertel, Purdue University

#### **Adapting to Climate Change Through Trade: Is It Better to Favor Intra Or Extra Regional Trade Policy Options? An Illustration With Africa and Latin America**

*David Laborde, IFPRI; Valeria Piñeiro, IFPRI; Fousseini Traore, IFPRI*

#### **Sub-National Markets and International Trade: Key to Understand Climate Change Adaptation in Eastern and Southern Africa**

*Charlotte Janssens, KU Leuven; Miet Maertens, KU Leuven; Petr Havlík, International Institute for Applied Systems Analysis*

#### **Agricultural Trade and Adaptation to Climate Change in Sub-Saharan Africa**

*Obie C. Porteous, Middlebury College*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

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### **Food Consumption, Waste, and Markets in China**

*Howard University (M1)*

#### **Track Session-China Section**

Sustainable food consumption, reducing food waste, and food availability have always been important issues on food system transition and food system resilience for the global and Chinese economy. This session includes eight presentations focusing on food safety, food marketing, consumer behavior, and food policy, which are all imperative in sustaining China's food supply.

Organizer: Binlei Gong, Zhejiang University

#### **Information Matters: The Framing Effects on Consumers' Perceptions of Zinc Biofortified Wheat Flour**

*Fuli Tan, China Agricultural University; Jingjing Wang, China Agricultural University; Yixuan Guo, Ghent University; Hans De Steur, Ghent University; Shenggen Fan, China Agricultural University*

#### **More Community Participation, Higher Food Security? The Role of Women's Empowerment in the Case of Underdeveloped Rural Areas in China**

*Fei Wang, Huazhong Agricultural University; Jinghui Hao, Huazhong Agricultural University; Jiaqi Huang, Chinese Academy of Agricultural Sciences*

#### **Off-Farm Employment, Farming Activities, and Household Dietary Diversity: Evidence from Five Developing Countries in Asia**

*Xuanye Zeng, University of Chinese Academy of Sciences; Yunli Bai, Institute of Geographic Sciences & Natural Resources Research; Chao Fu, Institute of Geographic Sciences and Natural Resources Research; Linxiu Zhang, Institute of Geographic Sciences & Natural Resources Research*

#### **Career Concerns and Farmland Protection: Evidence of the Farmland Red Line Policy**

*Zongyin Zhao, Zhejiang University Public Affairs Department; Wenrong Qian, Zhejiang University*

#### **Entry and Exit of Agricultural SMEs in China During the COVID**

*Qingwen Cai, Zhejiang University; Jianqing Ruan, Zhejiang University, China*

#### **Online Consumption Responses to Lockdown Policies in China**

*Ran Sun, Zhejiang University; Wen Lin, Zhejiang University*

#### **Is China's New Live Hog Futures Market Efficient?**

*Miao Li, Huazhong Agricultural University; Tao Xiong, Huazhong Agricultural University*

#### **Regional Governance, Quality Improvement and Agricultural Exports: Evidence from China's Quality and Safety Demonstration Zone Program**

*Chenchen Cai, Nanjing Agricultural University; Xi Tian, Nanjing Agricultural University*





## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

### **Industry Perspectives on Agricultural Risk Management in a Changing Climate**

*Dogwood (2nd Floor)*

#### **Track Session-Applied Risk Analysis Section**

Agricultural risk management is one of the major support programs of the United States Federal government that helps farmers cope with impacts from extreme weather events. Predictability of extreme weather events, while improving, remains challenged by a non-stationary background climate. As the climate changes, so does the timing and frequency of extreme weather events and the likelihood of agricultural losses. Moreover, in a global economy, effective agricultural risk management includes understanding climate change impacts across both time and space—these impacts are felt beyond local yield shortfalls, from downstream transportation costs to global prices. This session will focus on climate related challenges facing agricultural risk management, and how industry must continuously adapt its response to agricultural risk in a dynamic climate. The papers presented in the session will cover a broad range of topics from risk-modeling to crop marketing decisions and policy making that can have important implications for more effective agricultural risk management solutions in an uncertain future.

Organizer: Oscar Vergara, Verisk

#### **Agricultural Risk Modeling Challenges Under Changing Climate**

*Subodh Acharya, Verisk; Ryann A. Wakefield, Verisk/Extreme Event Solutions*

#### **Crop Marketing Decisions Under Increasing Weather Uncertainty**

*Cory G. Walters, University of Nebraska-Lincoln*

#### **Effective Rating Services for an Uncertain Future**

*Connor Brach, AM Best*

#### **Current State of Crop Insurance and the USDA's Longer Run Goals**

*Seth D. Meyer, USDA*

### **Sustainability and Climate Impact on Food Industry**

*LeDroit Park (M3)*

#### **Selected Presentation**

This session explores the intersection between production, the environment, and climate within the agribusiness sector.

Moderator: Cortney A. Cowley, Federal Reserve Bank of Kansas City

#### **Consumer Valuation for Low-Carbon Emission Butter**

*Daniele Asioli, University of Reading; Xiao Zhou, ETH Zurich; Anni Halmemies-Beauchet-Filleau, University of Helsinki; Aila Vanhatalo, University of Helsinki; Ian Givens, University of Reading; Agnese Rondoni, University of Reading; Anu Turpeinen, Valio Ltd*

#### **A Comparative Study of the Use of Climate Information in Agriculture in the U.S. Midwest, Argentine Pampas, and Southern Brazil**

*Silvina M. Cabrini, National Institute of Agricultural Technology (INTA) - Argentina; Gary D. Schnitkey, University of Illinois at Urbana-Champaign; Scott H. Irwin, University of Illinois at Urbana-Champaign; Joana Colussi, University of Illinois at Urbana-Champaign; Cristian Zucchini, National Institute of Agricultural Technology (INTA) - Argentina; Marcelo Rossetti, Universidad Nacional Del Noroeste De La Provincia De Buenos Aires; Luciana Elustondo, Universidad Nacional Del Noroeste De La Provincia De Buenos Aires*

#### **How do Climate and Environmental Risk Affect the Profitability of the Aquaculture Industry in Florida?**

*Edgar Marcillo, University of Florida; Kelly A. Grogan, University of Florida*

#### **Impacts of Drought in the U.S. Cattle Sector**

*Cortney A. Cowley, Federal Reserve Bank of Kansas City; David Rodziewicz, Federal Reserve Bank of Kansas City; Jacob Dice, Federal Reserve Bank of Kansas City*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

### **Agricultural Policy - Lightning Session 1, U.S.**

*Farragut North (M3)*

#### **Selected Presentation-Lightning Session**

Various topics in agricultural policy in the United States.

Moderator: Nicholas Potter, USDA-Economic Research Service

**The Distributional Effects of Tighter Regulations: New Evidence from the Sugarcane Burning in Florida**

*Xianru Han, University of Maryland - College Park*

**Prevented Planting Coverage Factor Analysis**

*Christopher N. Boyer, University of Tennessee; Eunchun Park, University of Arkansas; Aaron Smith, University of Tennessee; William E. Maples, Mississippi State University; Chad Hellwinckel, University of Tennessee*

**An Evaluation of Congressional Budget Office's Baseline Projections of USDA Mandatory Farm and Nutrition Programs**

*Todd H. Kuethe, Purdue University; Hari Regmi, Purdue University*

**Competition and Discrimination – Is There Is a Relationship Between Livestock Prices Received and Whether the Grower Is in a Historically Underserved Group?**

*Vincent E. Breneman, USDA-Office of the Chief Economist; Joseph C. Cooper, USDA-Office of the Chief Economist; Rebecca L. Nemecek Boehm, USDA-Office of the Chief Economist*

**Agricultural Minimum Wage and U.S. Agricultural Employment**

*SongYi Paik, University of Minnesota*

**Climate Impact on USDA Forecast Errors**

*Raghav Goyal, Louisiana State University*

**The Russian Aggression Against Ukraine: Implications for Decisions Leaving The Conservation Reserve Program**

*Meongsu Lee, University of Missouri; Patrick Westhoff, University of Missouri*

**Accounting for Non-Local Climate in Estimating Climate Impacts on Agriculture**

*Nicholas Potter, USDA-Economic Research Service; Robert A. Hrozencik, USDA-Economic Research Service*

### **Methodological Advances in Non-market Valuation**

*Shaw (M3)*

#### **Selected Presentation**

This session brings together methodological advances in non-market valuation techniques. From choice experiment design to matching hedonic estimators, then to using cell phone big data to elicit recreational demands, papers in this session propose state-of-the-art methods and offers practical guidance to non-market valuation practitioners.

Moderator: Wendong Zhang, Cornell University

**Stated and Inferred Precedence-Dependent Ordering Effects in Hypothetical and Real Discrete Choice Experiments**

*Qi Jiang, The Ohio State University; Jerrod Penn, Louisiana State University; Wuyang Hu, The Ohio State University*

**Regression and Matching in Hedonic Analysis: Empirical Guidance for Estimator Choice**

*Klaus Moeltner, Virginia Tech; Roshan Puri, Virginia Tech; Robert J. Johnston, Clark University*

**The Economic Value of State Parks: Revealed Preference Estimates Using Cell Phone Data**

*Gemma Del Rossi, University of California, Santa Barbara; Catherine L. Kling, Cornell; Ivan Rudik, Cornell University*

**Air Pollution and Recreational Visits: Evidence from Wildfire Smoke**

*Xibo Wan, Massachusetts Institute of Technology; Wendong Zhang, Cornell University; Yau-Huo Jimmy Shr, National Taiwan University*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

### **Combined Session on Rural Resilience, Access, and Development Issues and Climate Impacts on Agriculture**

Dupont Circle (M3)

#### **Selected Presentation**

This is a combined session with Subject Codes Rural/Community Development and Environmental Economics and Policy.

Join us for these various lightening sessions on rural resilience, access, and development issues. These include a wide variety of topics and methodologies relating to rural resources, rural infrastructure evaluation such as roads, broadband and water, and rural labor and markets.

And this session has an array of studies that evaluate the impact of climate change on agriculture.

Moderator: Gowthami Venkateswaran, University of Illinois at Urbana-Champaign

#### **A Panel Weather Study of Crop Failure Rates**

*Seung Min Kim, Yale University; Robert Mendelsohn, Yale University*

#### **Land Management and Environmental Responses to Carbon Subsidies in the U.S. Corn Belt**

*Jingyi Tong, Iowa State University; Chaoqun Lu, Iowa State University; Yongjie Ji, Iowa State University and CARD; David A. Hennessy, Iowa State University*

#### **Climate Change Impact on Pesticide Cost in the U.S.**

*Muxi Cheng, Texas A&M University; Bruce A. McCarl, Texas A&M University; Chengcheng Fei, Texas A&M University*

#### **Differentiated Agricultural Sensitivity and Adaptability to Rising Temperatures Across Regions and Sectors in China**

*Xiaoguang Chen, Southwestern University of Finance and Economics; Xiaomeng Cui, Jinan University; Jing Gao, Southwestern University of Finance and Economics*

#### **Meta-Analysis of Consumer's Willingness to Pay for Broadband**

*Sabina Regmi, Mississippi State University; Ayoung Kim, Mississippi State University; Devon P. Mills, Mississippi State University; John Green, Mississippi State University*

#### **Market Access Vs. Conflict Exposure: Smallholder Paddy Production in Myanmar**

*Linda Steinhübel-Rasheed, University of Goettingen; Bart J. Minten, IFPRI*

#### **A Choice Experiment of Wyoming Residents' Preferences Toward Water Resilience Improvement Programs**

*Anders T. Van Sandt, University of Wyoming; Kristiana M. Hansen, University of Wyoming; Mariah D. Ehmke, USDA-ERS; JJ Shinker, University of Wyoming; Ginger Paige, University of Wyoming; Mary Keller, University of Wyoming; Katie Cooper, Kent State University; Kristen Dawn Landreville, University of Wyoming*

#### **Rural Roads and Local Agro-Firm Development: Evidence from India**

*Gowthami Venkateswaran, University of Illinois at Urbana-Champaign; Kathy Baylis, University of California, Santa Barbara; Hemant K. Pullabhotla, Deakin University*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

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### **Experimental Economics - Paper Session 1**

*Chinatown (M3)*

#### **Selected Presentation**

Experimental economics in developing and transitioning countries

Moderator: Caitlin L. Herrington, Michigan State University

**What Is in a Label? Examining the Influence of Cultural and Colonial Heritage on Preferences and Willingness to Pay for Local and International Rice Labels in Senegal**

*Kofi Britwum, Tennessee State University; Matty Demont, International Rice Research Institute*

**Pricing and Allocative Efficiency of A New Agricultural Technology**

*Mai Mahmoud, Tufts University*

**Impacts of Gender and Income Control on Information Sharing and Learning Among Spouses**

*Sean Posey, University of Georgia; Nicholas Magnan, University of Georgia*

**Does Bid Quantity Matter? Comparing Farmer Willingness-to-Pay for Specified Vs Open-Ended Quantities of Biofortified Bean and Maize Seed in a Non-Hypothetical Field Experiment**

*Caitlin L. Herrington, Michigan State University; David L. Ortega, Michigan State University; Mywish K. Maredia, Michigan State University; Byron A. Reyes, CIAT*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

### **International Food Marketing Challenges and Supply Chain Management Across Various Food Industries**

*Capitol Hill (M3)*

#### **Selected Presentation-Lightning Session**

This lightning session includes studies that specifically focused on marketing issues, pricing strategies, supply forecasting, and food delivery in a different industry using evidence across the world. The papers in this session used a variety of methods, such as spatial market analysis, Moments-Quantile regression, web scraping, basket and expenditure-based choice experiment, and production forecasting, to reveal how food marketing can be a critical component in the global food market.

Moderator: Jiaqi Xuan, Zhejiang University

#### **Delivery Platform Impacts on Retail Pass-Through in the Restaurant Industry**

*Xiangwen Kong, Renmin University of China; Xiaou Liu, Renmin University of China*

#### **Spatial Differentiation in Pricing Strategy of Restaurant Business: An Explorative Study With Network Analysis Based on Web-Scrapped Data from a Delivery Application**

*Yong J. Kim, Korea Rural Economic Institute; Jinho Jung, Purdue University; Kihwan Yu, Kansas State University; Sanghyo Kim, Korea Rural Economic Institute; Nicole Olynk Widmar, Purdue University*

#### **Eliciting Choice Across Borders: Preferences for U.S. Rice Among Ethnic Chinese in China and the United States**

*Klaus Moeltner, Virginia Tech; Clinton L. Neill, American Veterinary Medical Association; Austin F. Ramsey, Virginia Tech; Huaiyu Wang, Beijing Institute of Technology*

#### **Global Grain Supply Forecasting**

*Walter Ac-Pangan, Kansas State University; Nathan P. Hendricks, Kansas State University; Yacob A. Zereyesus, USDA - Economic Research Service; Jennifer Y. Kee, USDA-Economic Research Service; Jeremy L. Jelliffe, USDA-Economic Research Service; Stephen N. Morgan, USDA-Economic Research Service; Lila Cardell, USDA-Economic Research Service; Noé J. Nava, USDA*

#### **Government-Supported Marketing Channels Increase Incomes Only for Producers of Local Staples: Evidence from Fruit and Vegetables Farmers in India**

*Alexis H. Villacis, Arizona State University; Thomas Kopp, The University of Siegen; Ashok K. Mishra, Arizona State University*

#### **Groundnut Value Chain in Nigeria: Positioning to Alleviate Supply Chain Crisis in Global Edible Oil Markets**

*Toyin B. Ajibade, University of Ilorin; Ezekiel T. Ajibade, University of Ilorin; Mercy Funke Salami, University of Ilorin; Adebanke Mutiat Balogun, University of Ilorin Nigeria*

#### **Can Access to Markets Slash Food Waste? Evidence from China**

*Xiaoxi Wang, Zhejiang University; Jiaqi Xuan, Zhejiang University*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

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### **Risk and Shocks**

*Mount Vernon Square (M3)*

#### **Selected Presentation**

The real world is full of uncertainties. Many more than is often assumed in simple introductory textbook economic models. This session includes papers that explore how people respond to risk and cope with experiencing shocks to their environment.

Moderator: Julian Arteaga, University of California - Davis

**The COVID-19 Pandemic, Russia-Ukraine War, and Price Uncertainty of Staples: An Application of the VECM-Asymmetric GARCH-M BEKK Method**

*Faruk Uruk, Atatürk University, Erzurum, Turkey; Abdulkali Bilgic, Bilecik Seyh Edebali University; Wojciech J. Florkowski, University of Georgia*

**Global Food Price Volatility Spillover from International to Domestic Markets**

*Kai Ling, Auburn University; Prokash Deb, Auburn University; Wenying Li, Auburn University*

**U.S. Agricultural Exports and the 2022 Mississippi River Drought**

*Sandro Steinbach, North Dakota State University; Xiting Zhuang, University of Connecticut*

**Temperature Shocks and Land Fragmentation: Evidence from Transaction and Property Registry Data**

*Julian Arteaga, University of California - Davis; Nicolás De Roux, Universidad De Los Andes; Margarita Gafaro, Banco De La República, Colombia; Ana Maria Ibanez, Interamerican Development Bank; Heitor Pellegrina, New York University, Abu Dhabi*

### **Resource Management and Policy**

*Eastern Market (M3)*

#### **Selected Presentation**

This section covers a range of issues in resource economics, such as wildlife management, fisheries, and land development. These papers highlight the value of natural resources and the need for effective management strategies and policies.

Moderator: Rick Horan, Michigan State University

**Environmental Threats and Natural Capital Valuation: Blue Crab Fisheries in the Gulf of Mexico Under Hypoxia**

*Shelby Brewer, University of Wyoming; Seong Yun, Mississippi State University; Daniel R. Petrolia, Mississippi State University*

**Zoning With Quantity Restrictions for Managing Exurban Development Patterns**

*Samuel E. Williamson, University of Maryland*

**Managing an Infected Wildlife Population Facing Invasion Risks from Another Pathogen: An Application to Brucellosis and CWD in Greater Yellowstone Area Elk**

*Rick Horan, Michigan State University; David Finnoff, University of Wyoming*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

### **Recreation Valuation and Natural Resource Management**

*Judiciary Square (M3)*

#### **Selected Presentation**

This section covers a diverse range of topics in resource economics. The papers discuss the value of natural resources in recreation, the factors associated with the valuation of resources, and effective resource management practices.

Moderator: Scott R. Templeton, Clemson University

**Using Aggregate Trip Data to Value Recreation Sites: A Comparison With Individual-Level Methods**

*Richard Melstrom, Loyola University; Carson Reeling, Purdue University*

**Estimating Loss of Recreational Fishing Trips from Harmful Algal Blooms in Lake Erie**

*Yining Wu, The Ohio State University; Brent Sohngen, The Ohio State University; Stuart A. Ludsin, The Ohio State University*

**Heterogeneous Effects of Housing Lot Size Composition on Water Consumption: Evidence from Water Agencies in California**

*Munib Inam, University of Kentucky; Mehdi Nemati, University of California, Riverside; Steven C. Buck, University of Kentucky*

**Experimental Evidence of Efficiency and Equity of Posted Price Markets for Irrigation Water**

*Dawoon Jeong, Purdue University; Juan Pablo Sesmero, Purdue University; Carson Reeling, Purdue University*

**Examining Incentives for Landowners to Use Preventative Measures Against Wildfires Through an Experimental Game**

*Kealey N. Collison, University of Florida; Kelly A. Grogan, University of Florida*

**Tests With Lab Experiments of Hotelling's Rule About Prices of Non-Renewable Resources**

*Scott R. Templeton, Clemson University; Daniel H. Wood, Federal Trade Commission*

### **Old Meets New - Using Conservation Programs to Achieve Climate Goals**

*Cherry Blossom (2nd Floor)*

#### **Track Session-Association of Environmental & Resource Economists and Land, Water, & Environmental Economics**

In 2020, carbon sequestration in forests and other lands offset 13 percent of total US CO<sub>2</sub> emissions. It is frequently argued that the land sector provides an important tool for achieving net zero GHG emissions at lowest cost. However, significant uncertainty surrounds potential impacts of policies targeted at the land sector; improved modeling is needed in order to design effective policies for achieving climate goals, accounting for important sources of complexity. This session will consist of four research presentations by scholars at the forefront of modeling the climate implications of land sector programs and policies, paired with discussants that study and implement these policies on behalf of the U.S. federal government. The goal of the session will be to facilitate conversation among researchers and policymakers in this area, taking advantage of the convening opportunity in Washington DC.

Organizers: Emily F. McGlynn, University of California, Davis; Matthew J. Wibbenmeyer, Resources for the Future

Moderators: Maria S. Bowman, USDA-Economic Research Service; Chris Hartley, USDA; Sara B. Ohrel, U.S. Environmental Protection Agency; Robert Richardson, U.S. Department of Interior; David Wear, RFF

**Conserving Carbon: Evaluating Term-Limited Conservation Programs**

*Emily F. McGlynn, University of California, Davis*

**Discrete Choice Land Use Models and the Role of Unobserved Heterogeneity: Implications for Carbon Policy**

*David Wear, RFF*

**Rain Follows the Forest: Land Use Policy, Climate Change, and Adaptation**

*Anna Papp, Columbia University*

**Leakage in Conservation Programs: New Insights from Numerical Models**

*Brent Sohngen, The Ohio State University; Florian Grosset, Columbia University; Charles Taylor, University of California, Berkeley*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

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### **The Game of Games: The Pedagogy and Examples of Games to Teach Agribusiness Concepts**

*Catholic University (M1)*

#### **Track Session-Teaching, Learning, & Communications Section and Agribusiness Economics & Management**

Active learning has been a significant part of the pedagogy and landscape for decades. Games, a specific type of active learning, have increasingly been employed in classes to demonstrate economic principles, provide experiential learning opportunities, and provide students engagement with applied, real-life problems (e.g. groundwater management). Several simulation games have been developed and produced by the likes of MIT's Sloan School of Management and Harvard Business School. These are usually repetitive, multidimensional, and semester-long focused. There are also games that have been developed by varied faculty to focus on specific points, concepts, or applied problems. This track session will lead with a review of the pedagogy of games as an engagement tool in the classroom and critical piece of active learning. In addition, two games, looking at agri-food supply chain disruptions and vertical integration, developed for single class/lab activities will be presented. The intent of the session is to spark discussion regarding best practices, variant options, and future ideas for games.

Organizer: Aaron J. Johnson, Kansas State University

Discussant: Elizabeth A. Yeager, Kansas State University

#### **Pedagogy of Games As Engagement and Active Learning**

*Logan L. Britton, Kansas State University; Aaron J. Johnson, Kansas State University*

#### **An Agri-Food Supply Chain Game - Where's the Beef (in the Supply Chain)?**

*Jason S. Bergtold, Kansas State University; Logan L. Britton, Kansas State University; Brian C. Briggeman, Kansas State University; Aaron J. Johnson, Kansas State University*

#### **Airplane Game - Pass the Paper Please!**

*Aaron J. Johnson, Kansas State University; Jason S. Bergtold, Kansas State University*





## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

### **Lessons Learned in Establishing New Specialty Crop Markets**

*Magnolia (2nd Floor)*

#### **Track Session-Specialty Crop Economics and Extension Section**

Establishing markets for crops that are unknown is a daunting task. Even though a few crops have moved beyond niche markets to retail and other mass markets, many more have gone bust even though they showed great promise. With the introduction of new pests and diseases, increasing foreign competition, and changing consumer preferences and habits, the profitability of several dominant crops is becoming questionable. So, growers and the enterprises that support them have begun looking to emerging crops as an opportunity to remain profitable. This track session examines lessons learned through efforts to introduce a variety of fruits, vegetables, grains, and spices into markets across the United States. The session includes studies that have examined stakeholders all along the value chain to provide a holistic understanding of creating new markets and taken together provide insights in how to reach larger consumer markets.

Organizers: Trent D. Blare, University of Florida; Guilherme Signorini, The Ohio State University

Moderator: Elizabeth Canales Medina, Mississippi State University

#### **Regionally Identified Heirloom Crops As a Viable Niche for Small Specialty Producers**

*Daniel Tregeagle, North Carolina State University; Dave Lamie, Clemson University; Michael Vassalos, Clemson University*

#### **Market Constraints for Passionfruit in the United States**

*Trent D. Blare, University of Florida; Benedict C. Posadas, Mississippi State University; Eric Stafne, Mississippi State University; Andres Bejarano Loo, Zamorano University/University of Florida*

#### **Markets for Saffron in the United States**

*Jane M. Kolodinsky, University of Vermont; Margaret Skinner, University of Vermont; Bruce L. Parker, University of Vermont; Arash Ghalegholabbehbahani, Rodale Institute*

#### **Market Opportunities for Smaller Grains**

*Ariana Torres, Purdue University*

#### **Assessment of Market Opportunities for Finger Limes**

*Fredy Ballen, University of Florida; Trent D. Blare, University of Florida; Damian C. Adams, University of Florida; Manjul Dutt, University of Florida*

#### **Does Area-Specific Agri-Environmental Information Affect Consumer Preference for Specialty Crops?**

*Md Azhar Uddin, Food and Resource Economics, University of Florida; Zhifeng Gao, University of Florida; Derek Farnsworth, University of Florida; Jared Gars, University of Florida*

#### **Consumer Preferences and Willingness to Pay for Domestically Produced Vanilla**

*Alissa Hevesh, University of Florida; Jaclyn D. Kropp, University of Florida; Zhifeng Gao, University of Florida*

#### **Strategic Agenda to Promote Sustainable Growth in the Developing Pawpaw Value Chain**

*Guilherme Signorini, The Ohio State University; Sarah Francino, The Ohio State University*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

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### **Synthetic Controls: Methods and Practice**

*Woodley Park (M3)*

#### **Track Session-Econometrics Section**

Because of their interpretability and transparent nature, synthetic controls have become widely applied in empirical research in economics and the social sciences. Susan Athey and Guido Imbens describe synthetic controls as “arguably the most important innovation in the policy evaluation literature in the last 15 years” (Athey and Imbens 2017). This presentation aims to provide practical guidance to researchers employing synthetic control methods. I discuss the advantages of the synthetic control framework as a research design, and describe the settings where synthetic controls provide reliable estimates and those where they may fail. I also discuss recent extensions, related methods, and avenues for future research.

Organizer: Austin F. Ramsey, Virginia Tech

Synthetic Controls: Methods and Practice

*Alberto Abadie, MIT*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

### **Advances in Behavioral and Experimental Economics in Applied and Agricultural Economics**

*Silver Linden (2nd Floor)*

#### **Track Session-Experimental Economics Section and Food Safety & Nutrition Section**

This session highlights recent trends and advances in behavioral and experimental economics for applied and agricultural economists. Methodological contributions, theoretical advancements, and behavioral frameworks are presented making use of a variety of experimental settings, such as, lab and field experiments. Among others, one presentation demonstrates the external validity of previously documented phenomena showing a novel certainty effect for preference reversals and finding that reversals persist at higher stakes and among experts (US agricultural producers). Another study shows how meditation can lower individuals' cortisol levels and subsequently foster healthy food choices. Presenters also compare experimental findings from a non-representative in-person field experiment to a nationally representative online counterpart in the context of making food purchases; while others evaluate ex-ante effects of nutrition labeling with a lab experiment mimicking a store environment. Finally, several studies use behavioral concepts to explain choice behavior.

Organizer: Carola Grebitus, Arizona State University

Moderator: Michelle Segovia, University of Missouri

#### **Introducing a New Ex-Ante Hypothetical Bias Mitigation Technique: The Hypothetical Consequential Choice**

*Vincenzina Caputo, Michigan State University; Jayson L. Lusk, Purdue University; Marco A. Palma, Texas A&M University*

#### **A Certainty Effect for Preference Reversals: Experiment and Theory**

*Paul J. Feldman, Texas A&M University; Paul J. Ferraro, Johns Hopkins University*

#### **Is a Non-Representative Convenience Sample Good Enough? Insights from an Economic Experiment**

*Olesya Savchenko, University of Florida; Sean F. Ellis, University of Pennsylvania; Kent D. Messer, University of Delaware*

#### **Effect of Cortisol on Healthy Food Choice: A Lab Experiment**

*Carola Grebitus, Arizona State University; Larissa Drescher, C3 Team Germany; Renee Shaw Hughner, Arizona State University; Donna Martens, Healing Emphasis Yoga Therapy*

#### **Impact of 'high in' Front-of-Package Nutrition Labeling on Food Choices: Evidence from a Grocery Shopping Experiment**

*Yu Na Lee, University of Guelph; Laura Stortz, University of Guelph; Michael Von Massow, University of Guelph; Christopher Kimmerer, University of Guelph*

#### **Effect of Product and Country Image on U.S. Consumers' Domestic Beef Preferences**

*Shijun Gao, Arizona State University; Carola Grebitus, Arizona State University; Karen L. DeLong, University of Tennessee*

#### **Do Extreme Opponents of COVID-19 Regulations Know the Least But Think They Know the Most? Testing Effects of Knowledge on Opposition to Government Measures**

*Nilufer Cetik, Arizona State University; Carola Grebitus, Arizona State University; Lauren Chenarides, Arizona State University*

#### **Do Consumers Perceive Organic Foods As Less Caloric Than Regular Foods? A Behavioral Study of the Organic Health Halo Effect**

*Simon Codjo, University of Florida; Bachir Kassar, University of Florida; Hayk Khachatryan, University of Florida; Rodolfo M. Nayga Jr., Texas A&M University*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

### **The Job Market: Applying and Interviewing**

*Gallaudet University (M1)*

#### **Track Session-Graduate Student Section and Committee on Women in Agricultural Economics**

The job market is a busy and overwhelming time for candidates. In this session, we will speak to recent graduates, as well as mid-career faculty to discuss both perspectives of the job market- both applying and hiring. We will also hear from faculty with a diverse set of appointments (research, teaching, and extension) to understand how the job market can vary with the type of appointment. Participants will receive advice on how to prepare for interviews and have an opportunity to ask questions relating to applications and fly-outs. Speakers include: Dr. Valerie Kilders, Dr. April Athnos, and Dr. Hunter Biram.

Organizer: Megan N. Hughes, Purdue University

Moderator: Megan N. Hughes, Purdue University

Panelist: Dr. Valerie Kilders

*Valerie Kilders, Purdue University*

Panelist: Dr. April Athnos

*April Athnos, University of Arizona*

Panelist: Dr. Hunter Biram

*Hunter D. Biram, University of Arkansas*

### **Food Prices in Federal Nutrition Assistance Programs**

*George Washington University (M1)*

#### **Track Session-Health Economics Section and Food & Agricultural Marketing Policy Section**

Three of the five pillars from the 2022 White House Conference on Hunger, Nutrition, and Health relate to disparities in nutrition and food affordability. When USDA's Food and Nutrition Service updated the Thrifty Food Plan (TFP) in August 2021, the department found that an increase in the cost target was needed for a model solution that satisfied nutrition constraints, which in turn led to an increase in the SNAP benefit amount. For this session, the contributors include a mix of early-career and experienced researchers in agricultural and applied economics, nutrition science, and policy analysis from all regions of the USA. The four papers combine new price data sources (such as PriceStats LLC and USDA's new Purchase-to-Plate nationally representative prices) with a variety of modeling approaches (including variations on the distance-minimizing constrained optimization model used in USDA's Thrifty Food Plan).

Organizers: Anne T. Byrne, Economic Research Service USDA; Parke E. Wilde, Tufts University

#### **Making Healthy Food More Affordable**

*Yiwen Zhao, The Pennsylvania State University; Linlin Fan, The Pennsylvania State University; Norbert L.W. Wilson, Duke University; Parke E. Wilde, Tufts University*

#### **Evaluating Federal Food Assistance Programs As a Safety Net Against Supply Shocks**

*Charlotte Ambrozek, University of Minnesota; Timothy Beatty, University of California, Davis*

#### **Food Insecurity and Consumers' Perception of Food Price Fairness**

*Ly Nguyen, University of Florida; Hoa T.K. Hoang, University of Missouri-Columbia; Rodolfo M. Nayga Jr., Texas A&M University*

#### **How Cultural Appropriateness Affects Assessments of the Cost of Healthy Food**

*Angélica M. Valdés Valderrama, Tufts University; Parke E. Wilde, Tufts University; Erin Hennessy, Tufts University*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

### **The U.S. – E.U. Collaborative Platform on Agriculture and Addressing the Challenges of Achieving Sustainable Modern Agri-food Systems**

*Georgetown University (M1)*

#### **Track Session-International Section**

Food and agriculture in the European Union (E.U.) and United States (U.S.) is characterized by modern agri-food value chains (AVC). Defined in Barrett et al. (2022), this final stage of AVC transformation (modern) implies greater global integration relative to earlier stages (i.e., traditional and transitional). This translates into market and trade activities, and partnerships (e.g., bi- and multi-lateral) to support global agri-food sustainability, such as, the U.S.–E.U. collaboration platform on agriculture (CPA). Accordingly, U.S.–E.U. CPA was motivated by the need for “International collaboration to confront climate change and foster sustainability is paramount to mitigating the harsh and difficult future that awaits us as a global society.” This session includes researchers from both the E.U. and U.S. to present and discuss early stage research efforts broadly related to these aims, and to inspire a meaningful discussion.

Organizer: Jeremy L. Jelliffe, USDA-Economic Research Service

Discussants: Marcel Adenauer, OECD; Shawn Arita, USDA-Office of the Chief Economist; Johan Swinnen, CGIAR & IFPRI (IFPRI)

#### **International Agri-Food Value Chains and Trade: A Global Food Dollar Approach**

*Jeremy L. Jelliffe, USDA-Economic Research Service; Fabio G. Santeramo, North Carolina State University; Bernard Hoekman, European University Institute*

#### **Global Agricultural Productivity, Markets and Trade Under Changing Weather and Climate**

*Eric Njuki, USDA-Economic Research Service; Jayson F. Beckman, USDA-Economic Research Service; Boris E. Bravo-Ureta, University of Connecticut; Jeremy L. Jelliffe, USDA-Economic Research Service; Michee A. Lachaud, Florida Agricultural and Mechanical University; Kate A. Vaiknoras, Economic Research Service; Adeline Yeh, USDA-Economic Research Service*

#### **International Competitiveness and Further Development of Production Systems in Arable Farming**

*Jannik Dresemann, Thuenen Institute; Yelto Zimmer, Thuenen Institute*

#### **Economic Assessment of the Agronomic Effects of Crop Diversification on Yields and Chemical Input Uses from Farm Data**

*Fabienne Femenia, INRAE; Ibirénoyé Honoré Romaric Sodjahin, University of Grenoble Alpes; Obafèmi Philippe Koutchade, INRAE / Smart; Alain Carpentier, Institut National de la Recherche Agronomique*

#### **Agricultural Emission Footprints in Trade: A Cross-Country Summary and Scenario Analysis**

*Jason Grant, Virginia Tech; Kiseok Shin, Virginia Tech; Hazelle Tomlin, Icf; Xi He, Virginia Tech; Shawn Arita, USDA-Office of the Chief Economist; Jason P. H. Jones, ICF; Sharon Sydow, USDA-Office of the Chief Economist; Jeffrey K. O'Hara, USDA - Office of the Chief Economist*



## Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM

### How Climate Change and Changes in Consumer Preferences Could Affect Export Markets in Latin America?

Salon 15 (M2)

#### Track Session-Latin America Section

Concerns about climate change are increasing at both the producer and the consumer levels. Some consumers in developed countries are willing to help reduce CO2 emissions by eating less meat or eating seasonally and locally, while producers in the Latin American region are experiencing changes in weather patterns that are affecting production. In both cases, climate change is creating challenges for domestic and international markets by making both supply and demand less predictable.

Organizer: Graciela C. Andrango, Western Illinois University

#### Risk Perceptions of Climate Change Among Cacao Farmers

*Alexis H. Villacis, Arizona State University; Victor Barrera, Instituto Nacional Autonomo de Investigaciones Agropecuarias; Juan Manuel Dominguez, ESPOL*

#### Should Water Conservation Policies Adjust to Weather Patterns? Evidence from Mexico

*Juan Pablo Sesmero, Purdue University; Dawoon Jeong, Purdue University; Karina Schoengold, University of Nebraska - Lincoln*

#### The Sensitivity of International Agricultural Trade to Weather Shocks: Micro-Level Evidence from Mexico

*James E. Sayre, University of California, Berkeley*

#### Changes in Consumer Preferences Due to Climate Change and Their Effects on Trade Markets in Latin America

*Graciela C. Andrango, Western Illinois University; Bri Ulmer, Western Illinois University*

### Reducing Food Loss and Waste Through Policy-induced Behavioral Change

Salon 14 (M2)

#### Organized Symposium

This 90 minutes Organised Symposium session will provide a valuable opportunity to promote collaboration amongst AAEA and AARES members in an area of global policy significance with linkages to nutrition security, climate change, and food safety. The US and Australia have both placed explicit targets to halve food loss and waste by 2030. These targets reflect production, consumption and environmental benefits associated with practice change and process innovation along food value chains. Both countries are promoting food loss mitigation efforts globally, including those in developing economies. These activities include issue awareness, research and development, and policy support for behavioural change. Discussions in this session will draw on research underway in US at both academia and government research institutions and Australia led research in Pakistan and Sri Lanka under ACIAR-IDRC research program on food loss mitigation. The session will offer an opportunity to discuss policy issues, research methods, and share emerging research results that point to problems and prospects for policy-induced behavioural change along the value chain. This is timely given the re-integration of global food systems following the pandemic and the Ukrainian invasion, advances in traceability technologies, growing food safety and security concerns, and climate change obligations.

Moderator: David J. Pannell, University of Western Australia

Panelists: Jean C. Buzby, USDA; Mariah D. Ehmke, USDA-Economic Research Service; Claudia Fabiano, Office of Land and Emergency Management U.S. EPA; Thilak Mallawaarachchi, Risk And School of Economics, University of Queensland; Thilak Mallawaarachchi, Risk And School of Economics, University of Queensland

#### Food Loss and Waste Mitigation in Developing Economies: Insights from Tomato and Mango Value Chains in Pakistan and Sri Lanka

*Thilak Mallawaarachchi, Risk and School of Economics, University of Queensland; Nauman Ejaz, International Islamic University, Islamabad, Pakistan*

#### Food Loss and Waste: What do We Know About It and How It Is Being Addressed?

*Jean C. Buzby, USDA*



## **Concurrent Sessions ★ Tuesday, 1:00 PM - 2:30 PM**

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### **Transition to Sustainable Consumption Choices**

*Salon 13 (M2)*

#### **Organized Symposium**

It has to become key to involve consumers in the transition towards healthy and sustainable food systems. This panel will discuss the challenges and approaches of involving consumers in this sustainability transition. Issues of consumer choice and consumers' ethical contributions will be discussed as well as the role of food waste and the implications of sustainability considerations on food service quality for vulnerable consumers in hospitals.

Organizer: Jutta Roosen, Technical University of Munich

Moderator: Jutta Roosen, Technical University of Munich

Panelists: Brian E. Roe, The Ohio State University; Laure Saulais, NUTRISS

#### **The Taste of Sustainability: The Role of Taste in the Green Transition**

*Klaus G. Grunert, Aarhus University*

#### **Relevance of Perceived CNSR for a Transition Towards Sustainable Consumption**

*Jeanette Leila Klink-Lehmann, University of Bonn; Monika Hartmann, University of Bonn*



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

### **Turmoil in Global Food and Agricultural Markets: Implications of Russia's Invasion of Ukraine**

Salons 6-10 (M2)

#### **Invited Paper**

This session contributes the latest state-of-the-art research and quantitative modeling to enhance the profession's understanding of the implications of Russia's invasion of Ukraine for global commodity markets, crop inputs, productivity, and trade and logistical networks.

Moderator: Seth D. Meyer, USDA

Discussant: Seth D. Meyer, USDA

**Russia's Invasion of Ukraine: Sanctions, Unfriendly Countries and the Fragmentation of Global Grain and Fertilizer Markets**

*Jason Grant, Virginia Tech; Shawn Arita, USDA-Office of the Chief Economist; Joseph W. Glauber, IFPRI; David Laborde, IFPRI; Seth D. Meyer, USDA*

**Impacts of Radical Changes in Ukraine Grain Logistics on Grain Trade and Flows**

*William W. Wilson, North Dakota State University; David W. Bullock, North Dakota State University; Prithviraj Lakkakula, North Dakota State University*

**Agricultural and Economywide Effects of the Ukraine Conflict**

*Amanda Countryman, Colorado State University; Oleg Nivievskyi, Kyiv School of Economics; Maria Bogonos, KSE; Roman Neyter, KSE*

### **Operationalizing Sustainability Measures at National and Sub-National Scales: Progress, Challenges, and Opportunities**

Salon 13 (M2)

#### **Organized Symposium**

The U.S. government has made significant progress recently in developing a strategic plan for treating nature as an asset and incorporating natural assets on the national balance sheet. This organized symposium will explore the conceptual and practical dimensions of the challenges to capital accounting and sustainability assessment at national and sub-national scales, including: (i) the distribution of capital assets at national/regional scales, accounting for intra-generational equity; (ii) uncertainty in the value of place-specific capital assets (e.g., arising from climate risks or new policies to accelerate decarbonization); and (iii) accounting for spatial-interactions across regions through migration, trade, and pollution flows. These are the complex challenges and panelists in this symposium will discuss progress and current research gaps in data collection, measurement, and analytical approaches.

Moderator: Sathya Gopalakrishnan, The Ohio State University

Panelists: Wesley Burnett, USDA-Economic Research Service; Eli P. Fenichel, Yale University; Elena G. Irwin, The Ohio State University; Robert Richardson, U.S. Department of Interior

### **Hot Prices and Hot Takes: An Open Discussion of the Drivers of Food Price Inflation, Research Challenges, and Implications for Policy**

Salon 12 (M2)

#### **Organized Symposium**

The goal of the symposium is to further our understanding of drivers and impacts of the food price inflation. Four panelists present the latest research, data, and analytical challenges to evaluating the recent food price inflation, followed by a structured discussion.

Moderator: Rebecca L. Nemecek Boehm, USDA-Office of the Chief Economist

Panelists: Metin Çakir, University of Minnesota; Lauren Chenarides, Arizona State University; Qingxiao Li, Louisiana State University; Matthew J. Maclachlan, USDA-Economic Research Service Market and Trade Economics Division





## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

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### **Rural Broadband: Availability, Speed, and Heterogeneous Impacts**

*Cherry Blossom (2nd Floor)*

#### **Track Session-Community & Regional Economics Network and Extension Section**

This session investigates how increasing broadband availability and speeds are affecting different subsets of rural residents and rural business dynamics. The first paper will investigate heterogeneous impacts of USDA ReConnect projects on broadband speed in rural areas, considering impacts across census blocks populated by different race, ethnic, and age groups. The second paper will assess the impact of broadband speeds on rural business dynamics (employment, startup rates, and survival), also considering heterogeneous impacts on different demographic groups. Further investigating how broadband affects businesses, the third paper will examine rural broadband's impact on very small 'cottage' business creation and survival. The fourth paper will combine survey and secondary data sources to identify the effects of broadband and other factors on telehealth utilization among adults (including impacts by age group) in Mississippi. Each paper has implications for Extension audiences, including programming opportunities that will arise from the recently-passed Broadband Equity, Access, and Deployment (BEAD) funding.

Organizer: John L. Pender, USDA-Economic Research Service

#### **Initial Impacts of the ReConnect Program on Rural Broadband Availability and Speed**

*John L. Pender, USDA-Economic Research Service; Joshua Goldstein, University of Virginia; Hanna Charankevich, University of Virginia; Jinjing Luo, Iowa State University*

#### **Impacts of Broadband Speed on Rural Business Dynamics**

*Christina Biedny, Oklahoma State University; John L. Pender, USDA-Economic Research Service; Brian E. Whitacre, Oklahoma State University*

#### **Impacts of Broadband on Rural Cottage Business Growth and Survival**

*Kelsey L. Conley, USDA-Economic Research Service; Anil Rupasingha, USDA-Economic Research Service*

#### **Understanding the Relationship Between Broadband Access, Telehealth Utilization, and Population Health: Evidence from Mississippi**

*Ayoung Kim, Mississippi State University; Will Davis, Mississippi State University*



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

### **Experiments Examining Consumer and Producer Behavior in Response to Emerging Environmental and Health Concerns**

*Silver Linden (2nd Floor)*

#### **Track Session-Land, Water, & Environmental Economics Section**

Economic experiments are powerful tools for analyzing consumer and producer behaviors in response to emerging environmental and health concerns for which observational data are often limited. This session features eight experimental studies examining consumer and producer decision making in the lab and in the field. Four consumer studies investigate preferences for foods with superior attributes related to environmental sustainability and health. Four producer studies investigate how public good provision and common pool resource management are affected by social networks, heterogeneous emergent risks related to climate change, altruism, and information about local and global co-benefits. Methodological advancements are highlighted related to dynamics, the role of information and messenger, and the validity of willingness to pay elicitation formats in experimental design. Together, these studies improve our understanding of how beliefs, emotions, and risks affect consumers' food choices and producers' agricultural practices.

Organizer: Leah H. Palm-Forster, University of Delaware

#### **Addressing Concerns of Emerging Pollutants: Consumer Willingness to Pay to Mitigate Exposure to Per-and Polyfluoroalkyl Substances (PFAS)**

*Diya Ganguly, University of Delaware; Samuel L. Priestley, Texas A&M University; Marco A. Palma, Texas A&M University; Kent D. Messer, University of Delaware*

#### **Estimating Willingness to Pay Differences for Grassland Lamb: Evidence from Choice Experiment and BDM Results Under Different Consequentiality Treatments**

*Pengfei Liu, University of Rhode Island; Lingling Hou, Peking University*

#### **Testing the Effectiveness of Lottery Incentives in Online Experiments: An Application to Criollo Meat**

*Amelia Ahles, Texas A&M University; Marco A. Palma, Texas A&M University; Andreas Drichoutis, Agricultural University of Athens*

#### **The Impact of Stress and Failure on the Healthfulness of Snack Choices**

*Martina Vecchi, The Pennsylvania State University*

#### **Common Pool Resource Use in the Presence of Heterogeneous Risks and Groundwater Model Dynamics: The Case of Saltwater Intrusion**

*Lusi Xie, University of Delaware; Leah H. Palm-Forster, University of Delaware; Mary Hingst, University of Delaware; Holly Michael, University of Delaware*

#### **Social Networks and Technology Adoption: A Lab Experiment Investigating the Effect of Strong and Weak Ties in a Dynamic Public Goods Game**

*Sabrina Gulab, University of Nebraska-Lincoln; Simanti Banerjee, University of Nebraska-Lincoln; Ursula W. Kreitmair, Indiana University*

#### **Adoption of Smart Farm Networks: Combining Experimental and Translational Research to Inform on Digital Agriculture Technologies**

*Michelle Segovia, University of Missouri; Barituka Bekee, University of Missouri; Corinne Valdivia, University of Missouri*

#### **Farmer Adoption of Advanced Decision Support Tools: Evidence from a Framed Field Experiment Investigating Behavioral Responses to Information About Co-Benefits**

*Badri Khanal, University of Delaware; Leah H. Palm-Forster, University of Delaware; Kelly A. Davidson, University of Delaware*



## Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM

### Supply Chain Management and Risk Mitigation in Food Production and Distribution

Farragut North (M3)

#### Selected Presentaton-Lightning Session

This session explores the economic and supply chain aspects of the food industry, covering topics such as meatpacking concentration, public transportation, and supplier selection.

Moderator: Mati Mohammadi, Purdue University

#### Meatpacking Concentration: Implications for Supply Chain Performance

Rigoberto A. Lopez, University of Connecticut; Luis Seoane Estruel, University of Connecticut

#### How Public Transportation Investments Alter Food-At-Home and Food-Away-from-Home Decisions

Jose H. Quintero, Michigan State University; Trey Malone, University of Arkansas; Anne T. Byrne, USDA-Economic Research Service; Thomas A. Reardon, Michigan State University; Craig W. Carpenter, Michigan State University

#### Infrastructure and Spatial Price Relationships: New Insights from Chinese Vegetable Wholesale Markets

Meilin Ma, Purdue University; Kai Yang, Shanghai University of Finance and Economics; Mingzhi Xu, Peking University; Huayi Yu, Renmin University

#### Risk>Returns of Forward Contracting Southern Row Crops With Crop Revenue Insurance

Chandan Bhattarai, University of Arkansas; Andrew M. McKenzie, University of Arkansas; Hunter D. Biram, University of Arkansas; Alvaro Durand-Morat, University of Arkansas

#### How do Supermarkets Select Vegetable Suppliers in Developing Countries? Empirical Evidence from India

Vishnu Shankarrao Kedar, Narsee Monjee Institute of Management Studies (NMIMS), India; Parmod Kumar, Giri Institute of Development Studies, India; Ruchika Rai, CHRIST (Deemed To Be University) India

#### The Impact of Violent Conflict on Food Supply Chains: The Case of Nigerian Maize Traders

Carolina M. Vargas, Michigan State University; Thomas A. Reardon, Michigan State University; Saweda Liverpool-Tasie, Michigan State University

#### Analyzing Beef Supply Chain Response to Transparency Demand, Using System Dynamics

Mati Mohammadi, Purdue University; Allan W. Gray, Purdue University; Brady E. Brewer, Purdue University

### Agricultural Policy - Lightning Session 2, International

Dupont Circle (M3)

#### Selected Presentation-Lightning Session

Eight presentations on a variety of agricultural policy outside the United States.

Moderator: Miriam Juarez-Torres, Banco de Mexico

#### Impact of Agricultural Policies on Wheat Market Prices: Evidence from India

Ashutosh K. Tripathi, BIRD; Ashok K. Mishra, Arizona State University

#### Property Rights, Labor Reallocation, and Gender Inequality in Rural China

Xinjie Shi, Zhejiang University; Bingyu Huangfu, Zhejiang University; Songqing Jin, Michigan State University; Xuwen Gao, Peking University

#### Property Rights and Land Misallocation: Evidence from New Land Certified Program in China

Binlei Gong, Zhejiang University; Peinan Hu, Zhejiang University; Songqing Jin, Michigan State University; Lingran Yuan, Zhejiang University

#### Welfare Impacts of a Commercialization Policy for Brazilian Family Farmers

Adauto B. Rocha Jr., University of Nebraska- Lincoln

#### Gender-Based Discrimination and Global Crop Yield

Daniel Chrisendo, Aalto University

#### Egg Prices to Skyrocket. The Effect of Avian Influenza in Egg Domestic Prices: Evidence from Mexican Markets

Miriam Juarez-Torres, Banco de Mexico; Jesus Arellano-Gonzalez, Bank of Mexico



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

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### **Carrots, Sticks, and Beyond: Design and Impact of Payments for Ecosystem Services**

*Shaw (M3)*

#### **Selected Presentation**

This session presents recent advances in designing and evaluating payments for ecosystem services (PES) programs. The studies use theoretical models, simulations, and empirical methods to investigate factors such as the design, performance, and unintended consequences of various PES schemes.

Moderator: Erik Lichtenberg, University of Maryland

#### **Payments for Ecosystem Services Programs and Climate Change Adaptation in Agriculture**

*Youngho Kim, University of Maryland*

#### **Designing Payments for Multiple Ecosystem Services With Advanced Biofuels in the Mississippi River Basin**

*Xinxin Fan, University of Illinois at Urbana-Champaign; Madhu Khanna, University of Illinois at Urbana-Champaign; Theodore Hartman, Iowa State University; Andy VanLoocke, Iowa State University*

#### **Evaluating a Jurisdictional Approach to Agricultural Carbon Offset Programs**

*Micah Cameron-Harp, Kansas State University; Nathan P. Hendricks, Kansas State University*

#### **Penalties, Targeting, and Performance in Payment for Ecosystem Services Programs**

*Erik Lichtenberg, University of Maryland; David Newburn, University of Maryland; Youngho Kim, University of Maryland*

### **Human vs. Nature: The Economic Value of Bees and Trees**

*Eastern Market (M3)*

#### **Selected Presentation**

This session gathers papers that collectively advances the understanding of human-nature interactions for plant and insect species. From managing forests to managing pests, and from valuing pollinators to valuing mangroves, the session brings about a feast of empirical and institutional settings that human interacts with nature.

Moderator: Cheng Bi, University of Illinois at Urbana-Champaign

#### **Let 'Em Grow: Do Florida Coastal Property Owners Value Mangroves?**

*Swaty Kajaria, University of Georgia; Susana Ferreira, University of Georgia; Yukiko Hashida, University of Georgia*

#### **The Value of the Bee: Weather, Climate, and Pollination Ecosystem Services**

*Manuel Linsenmeier, Columbia University*

#### **Projecting the Spatial Distribution of Tree Planting Under Different Policy Incentive Structures**

*Madisen Fuller, North Carolina State University; Justin S. Baker, North Carolina State University; Gregory Latta, University of Idaho; Zoey Roberts, University of Idaho; Sara B. Ohrel, U.S. Environmental Protection Agency*

#### **Identifying the Natural Enemy-Adjusted Economic Threshold (NEET) for Dynamically Optimal Pest Management in High Tunnels**

*Cheng Bi, University of Illinois at Urbana-Champaign; Shadi S. Atallah, University of Illinois at Urbana-Champaign*



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

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### **Experimental Economics - Lightning Session 1**

Salon 15 (M2)

#### **Selected Presentation-Lightning Session**

Experimental Economics - Lightning Session 1

Moderator: Qi Kang, Texas Tech University

**Behavioral Interventions to Improve Dietary Quality for Low-Income Households: A Field Experiment in South Korea**

*Jeong Hun Ji, Korea University; Hyun Ju Park, Korea University; Sang Hyeon Lee, Korea University*

**Mechanism Between Time Scarcity and Healthfulness of Food Choices: Evidence from Lab Experiments**

*Sihyun Park, The Pennsylvania State University; Martina Vecchi, The Pennsylvania State University*

**The Information Content of Expert Reviews Brand and Geographical Indications. Experimental Evidence from Spain and France**

*Marco Costanigro, Colorado State University; Magalie Dubois, Universite' De Bordeaux; Azucena Gracia, SIA-DGA; Jean-Marie Cardebat, University of Bordeaux*

**Temptation, Self-Control, and Consistency of Food Choices: An Online Field Experiment**

*Pathmanathan Sivashankar, Auburn University; Samir Huseynov, Auburn University; Joshua M. Duke, Auburn University*

**How Does Carbon Emission Information Affect Future Food Choices? The Effect of Content, Format, and Presentation Order**

*Hongxing Liu, Lafayette College; Liqing Li, California State University Fullerton; Dede Long, California State University Long Beach*

**Price As a Quality Indicator in Choice Experiments: The Case of Meat Demand in China**

*Qi Kang, Texas Tech University; Carlos E. Carpio, Texas Tech University; Chenggang Wang, Texas Tech University; Tullaya Boonsaeng, Texas Tech University; Michael Darren Hudson, Texas Tech University*



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

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### **Consumer Food Preferences and Demand Intersecting Food Products, Retail Formats, and Pricing**

Judiciary Square (M3)

#### **Selected Presentation-Lightning Session**

This lightning session collects papers that use a variety of methodologies to study food demand, consumer preference, and price premiums for food products in different settings. A variety of food products, such as plant-based meat, fraudulent meat, and local foods, are examined to discuss consumer preference and marketing-related issues in the recent trend.

Moderator: Yefan Nian, University of Florida

#### **The Determinants of Plant-Based Meat Alternative Purchases in the U.S.: A Double Hurdle Latent Class Approach**

*Prokash Deb, Auburn University; Shuoli Zhao, University of Kentucky; Haoluan Wang, University of Miami; Wenyong Li, Auburn University*

#### **Impacts of Variety-Seeking, Substitution, and Demographics on Demand for Plant-Based Meat Alternatives**

*Zachary T. Neuhofer, Purdue University; Jayson L. Lusk, Purdue University*

#### **The COVID-19 Pandemic and Grocery Shopping Behavior: Who Are the Hybrid Shoppers?**

*Brenna Ellison, Purdue University; Kendra Personett, Purdue University*

#### **Demand Analysis of Infant Formula**

*Aihui Li, Texas A&M University; Yu Yvette Zhang, Texas A&M University; Xingguo Wang, Texas A&M University*

#### **Avoiding Fraudulent Meat: Muslim Consumer Preferences for Halal Meat Retailers**

*Kelsey A. Hopkins, Michigan State University; Melissa G. S. McKendree, Michigan State University; David L. Ortega, Michigan State University*

#### **Urban-Rural Differences in Consumer Demand for Locally Sold Food**

*Joshua J. Reed, The Pennsylvania State University; Yizao Liu, The Pennsylvania State University; Edward C. Jaenicke, The Pennsylvania State University; Chiu-Lin Huang, Penn State University; Xiao Dong, USDA-ERS*

#### **Retail Intermediation and Price Premium of Local Foods**

*Houtian Ge, Cornell University; Miguel I. Gomez, Cornell University; Timothy J. Richards, Arizona State University*

#### **Reference-Dependent Food Choice With Various Reference Prices**

*Yefan Nian, University of Florida; Dinglin Duan, University of Florida; Md Azhar Uddin, Food and Resource Economics, University of Florida; Zhifeng Gao, University of Florida*



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

### **Ingredient Labeling and Product Reformulation**

*Capitol Hill (M3)*

#### **Selected Presentation**

Strategies for improving nutrition outcomes include changes to product labeling and mandatory or voluntary product reformulation. This session includes four presentations analyzing these issues in the context of beverage reformulation, the updated Nutrition Facts Panel, and FDA's sodium reduction guidance.

Moderator: Jing Gan, University of Massachusetts-Amherst

#### **Labels, Taxes, and Food Reformulation: A Tale of Sugar in Soft Drinks in Ecuador**

*Alexis H. Villacis, Arizona State University; Carlos E. Carpio, Texas Tech University; Tullaya Boonsaeng, Texas Tech University; Tania Cabrera, Universidad Nacional De Loja; Jose Alvarado, Universidad Nacional De Loja*

#### **Promoting Healthy Diets Through Food Reformulation: The Demand for "Better for You" Beverage**

*Pei Zhou, The Pennsylvania State University; Yizao Liu, The Pennsylvania State University*

#### **Reducing Added Sugar Intake: The Impact of Updated Nutrition Facts Panel**

*Yuxiang Zhang, The Pennsylvania State University; Yizao Liu, The Pennsylvania State University*

#### **Reactions to FDA Sodium Reduction Guidance: Demand and Supply**

*Jing Gan, University of Massachusetts-Amherst; Nathalie Lavoie, University of Massachusetts-Amherst; Qihong Liu, University of Oklahoma; Emily Y. Wang, University of Massachusetts-Amherst*

### **Health Economics - Paper Session 1**

*Chinatown (M3)*

#### **Selected Presentation**

The title of the program: Environmental and Socioeconomic Impacts on Health: Global Perspectives

Moderator: Taiwo Akinyemi, West Virginia University

#### **Dams of Malaria**

*Sebastien J. Mary, Governors State University; Avraham Stoler, DePaul University; Sarah Shafiq, DePaul University; Kyle Craven, DePaul University*

#### **Wildfires and Farmworker Health**

*Timothy Beatty, University of California, Davis; Goeun Lee, University of California, Davis*

#### **Trade Effects on Substance Abuse: Evidence from Colombia's Liberalization**

*Julian Diaz Gutierrez, University of Illinois at Urbana-Champaign*

#### **Power Plants and Child Mortality in Nigeria**

*Taiwo Akinyemi, West Virginia University; Suhyun Jung, West Virginia University*



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

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### **International Development: Climate Change Adaptation**

*LeDroit Park (M3)*

#### **Selected Presentation**

Moderator: Yuanyuan Wen, Virginia Tech

Climate Change and Intersectoral Labor Reallocation in the Presence of Labor Market Frictions

*Trinh Pham, Cornell University*

Weather Shocks and Perceptions of Relative Well-Being

*Judhajit Chakraborty, Michigan State University*

Economic and Demographic Effects of Increased Flood Susceptibility: Evidence from Rural India

*Osama Sajid, Cornell University*

The Impact of Climate Change on Perennial Crop Production in California: Yield Response and Adaptation

*Yuanyuan Wen, Virginia Tech; Wei Zhang, Virginia Tech*

### **Navigating the Complexities of Trade Policy: Carbon Border Taxes, Tit-for-Tat, and Environmental Concerns**

*Mount Vernon Square (M3)*

#### **Selected Presentation**

The session will explore the complex and interconnected issues of trade policy, environmental concerns, and market dynamics through the lens of four key papers. The session will cover a range of topics, including carbon border tax adjustments, trade-distorting farm support, determinants of policy responses in the US-China trade war, and the leverage of the US and the EU in reducing deforestation in Brazil. Attendees will gain valuable insights into the challenges and opportunities presented by these issues and their potential impact on global trade. Each paper will benefit from review comments by a designated reviewer.

Moderator: Ian M. Sheldon, The Ohio State University

Determinants of Policy Responses in the US-China Tit-for-Tat Trade War

*William Ridley, University of Illinois at Urbana-Champaign; Stephen Devadoss, Texas Tech University*

Revising the WTO Measurement of Price Interventions to Better Constrain Trade-Distorting Farm Support

*David Orden, Virginia Tech; Lars Brink*

Vertical Markets, Carbon Border Tax Adjustments and 'Dirty Inputs'

*Ian M. Sheldon, The Ohio State University; Steve McCorrison, University of Exeter*





## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

### **Research Methods/Econometrics/Stats - Lightning Session 1**

Woodley Park (M3)

#### **Selected Presentation-Lightning Session**

This lightning session will feature eight short presentations of papers featuring the development of innovative statistical or econometric methods, or the applications of innovative statistical or econometric methods to issues in agricultural and applied economics.

Moderator: Juan Pablo Sesmero, Purdue University

**The Strength of Weak Ties As a Strategy to Allocate Research Funds: Making a Bioenergy Research Network More Productive**

*Syed Fuad, Texas Tech University; Michael C. Farmer, Texas Tech University*

**Modeling the Relationship Between Planting Density and Yield and Yield Risk Using a Flexible Estimation Framework**

*Lulu Pi, North Carolina State University; Zheng Li, North Carolina State University; Xiaoyong Zheng, North Carolina State University; Roderick M. Rejesus, North Carolina State University*

**Introducing Automatic Video Mining to Agricultural Economics: A Case Study from a Crowdfunding Website**

*Zhengliang Yang, Michigan State University; Vincenzina Caputo, Michigan State University*

**A Regime Switching Limited Information Maximum Likelihood Estimator**

*Golam Saroare Shakil, Washington State University; Thomas L. Marsh, Washington State University*

**Comparative Effectiveness of Machine Learning Methods for Causal Inference in Agricultural Economics**

*Syed Badruddoza, Texas Tech University; Syed Fuad, Texas Tech University; Modhurima D. Amin, Texas Tech University*

**Out-of-Equilibrium Behavior and Inference on Firm Conduct Evidence from Laboratory Experiments**

*Juan Pablo Sesmero, Purdue University; Joseph V. Balagtas, Purdue University; Steven Y. Wu, Purdue University; Francisco Albert Scott, Federal Reserve Bank of Kansas City*

### **COVID-19 Impacts and Population Nuances of the Rural U.S.**

Union Station (M3)

#### **Selected Presentation**

This session explores how rural areas respond to the COVID-19 pandemic. Specific papers include rural small business loan access, rural migration responses to the earned income tax credit, impacts of statewide COVID-19 policies in urban and rural communities, and a spatial approach to the relationship between state education and poverty.

Moderator: Jill J. McCluskey, Washington State University

**Rural Small Business Loan Access and Their Adaptive Capacity in Times of Crisis**

*Zuzana Bednarik, North Central Regional Center for Rural Development; Maria I. Marshall, Purdue University*

**Rural Migration Responses to the Earned Income Tax Credit**

*Tia M. McDonald, USDA-Economic Research Service; Ron L. Durst, USDA-Economic Research Service*

**Understanding the Relationship Between Education and Poverty in Mississippi: A Spatial Approach**

*Amadeo F. Panyi, Oklahoma State University; Alicia M. Young, Oklahoma State University; Brian E. Whitacre, Oklahoma State University*

**Differential Impacts of Statewide Covid Policies on Urban Vs. Rural Communities: Evidence from Liquor Sales in Idaho**

*Philip S. Watson, University of Idaho; Jason Winfree, University of Idaho; Jill J. McCluskey, Washington State University; Ron C. Mittelhammer, Washington State University*



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

### **Opportunities and Challenges for the Future at ERS**

Salon 14 (M2)

#### **Track Sessions-Senior Section**

ERS, along with other institutions, has faced a series of dramatic events over the last few years that promise both opportunities and challenges for economics research going forward. This session brings together leaders from ERS and related agencies to discuss new approaches to research collaboration, data access, and workforce management in a future increasingly defined by digital resources, diversity, and interdependence.

Organizers: Neilson C. Conklin, Farm Foundation, Retired; Anne B. Effland, USDA

Moderator: Neilson C. Conklin, Farm Foundation, Retired

#### **Panel Overview/introductions**

*Neilson C. Conklin, Farm Foundation, Retired*

#### **Harnessing Diversity and Digital Resources At ERS for Effective Research Across Interdependent Systems**

*Spiro E. Stefanou, USDA-Economic Research Service*

#### **Research Teams and Collaboration in a Geographically Distributed Workforce**

*Jim Staiert, USDA-Economic Research Service*

#### **Handling and Enhancing Confidential Data Analysis and Delivery in an Increasingly Virtual Environment**

*Mark D. Jekanowski, USDA-World Agricultural Outlook Board; Hubert Hamer Jr., USDA-National Agricultural Statistics Service; Joy L. Harwood, USDA-Farm Service Agency*

### **Innovative Methods in Data Mining and Analytics for Teaching, Research, and Extension**

Tulip (2nd Floor)

#### **Track Session-Agribusines Economics & Management and Econometrics**

New techniques to analyze and collect data through the web or in non-uniform documents have emerged in recent years. Examples of new data mining techniques include web scraping, text mining, using GPS locations on mobile devices, social media listening, and web tracking, to name a few. In addition, new data analytics techniques have emerged that enable researchers, teachers, and extension professionals to gain insights or help perform functions from novel, non-uniform data sources and AI learning algorithms. The insights can help lead to different learning outcomes in teaching, research discoveries, and impactful extension programs. We briefly discuss some new innovative data mining and analytics techniques that we have used and their specific impacts on our research, teaching, and extension programs.

Organizer: Matthew Elliott, South Dakota State University

#### **Text Mining and Text Analytics for Teaching, Research, and Extension in R and Python**

*Matthew Elliott, South Dakota State University*

#### **Web Scraping & Network Analysis**

*Leonardo F. Sánchez-Aragón, Escuela Superior Politecnica del Litoral*

#### **Analytics in the Cloud: Reaching Extension Audiences With Interactive Dashboards**

*Terry W. Griffin, Kansas State University*

#### **Using GPT-3 in Teaching, Research, and Extension**

*Matthew Elliott, South Dakota State University*



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

### **Innovative Course Formats to Enhance Student Learning**

*Dogwood (2nd Floor)*

#### **Track Session-Teaching, Learning, & Communications Section and Agribusiness Economics & Management**

Agribusiness programs aim to equip graduates with decision making and problem-solving skills for a globally competitive and dynamic business environment. Ensuring student success requires instructors to explore innovative course formats that augment the learning of theoretical concepts, while promoting students' preparedness for future careers. In this session, we discuss how single hour course credit formats involving labs or practice sessions for academic bowls enhance student learning. We present faculty and student experiences from collaborative team-taught labs to complement introductory agribusiness courses and foster student engagement. We highlight the Collaborative Online International Learning (COIL) model and a unique semester long study abroad program designed to enrich both student and faculty experiences in a global setting, and how to add industry sponsorship to classroom projects. Finally, we explore the publication impact of applying masters of agribusiness thesis research into case study development.

Organizers: Joey E. Mehlhorn, University of Tennessee at Martin; Rachna Tewari, University of Tennessee Martin

#### **Learning by the Hour: Do Single Credit Hour Courses Interest Students More?**

*Rachna Tewari, University of Tennessee Martin; Na Zuo, University of Arizona; Joey E. Mehlhorn, University of Tennessee at Martin; Maria Bampasidou, Louisiana State University*

#### **One-Credit Quiz Bowl Class**

*Jerrod Penn, Louisiana State University*

#### **UTM in Sienna: A Semester Abroad Program**

*Joey E. Mehlhorn, University of Tennessee at Martin; Ross Pruitt, University of Tennessee at Martin; Anthony R. Delmond, University of Tennessee at Martin; Scott D. Parrott, University of Tennessee at Martin*

#### **Collaborative Online International Learning (COIL) and Intercultural Competency**

*Na Zuo, University of Arizona; Lijiao Hu, California State University, Chico*

#### **Team-Taught Lab to Complement an Introductory Agribusiness Course**

*Ross Pruitt, University of Tennessee at Martin; Rachna Tewari, University of Tennessee at Martin; Scott D. Parrott, University of Tennessee at Martin; Joey E. Mehlhorn, University of Tennessee at Martin; Anthony R. Delmond, University of Tennessee at Martin*

#### **Creating Applied Classroom Projects With Industry Sponsorships**

*Christiane Schroeter, California Poly - San Luis Obispo*

#### **Questioning The One Size Fits All Master's Thesis: Are Masters of Agribusiness Students Better Served by Shifting from Academic to Case Study Style Research?**

*Tanner McCarty, Utah State University*



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

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### **Alternative Agri-food Products to Tackle Climate Change**

*Magnolia (2nd Floor)*

#### **Track Session-Food & Agricultural Marketing Policy Section and Specialty Crop Economics**

This session presents research on a variety of agricultural and food products that highlight sustainable production. For instance, specialty crops, such as pecan nuts, can be produced more sustainably using specific watering methods. Also, animal-sourced foods (ASFs) and plant-based foods (PBFs) may differently present ethical claims about environmental sustainability, human health, and sourcing. One study presented assesses compliance to label requirements and assesses differences in claims across seven leading U.S. online grocery retailers. Furthermore, two presentations cover the novel crop, hemp. One examines stated preferences for hemp using a national consumer study. The other one utilizes big data (IRI scanner) to examine revealed preferences for hemp based foods.

Organizers: Carola Grebitus, Arizona State University; Jane M. Kolodinsky, University of Vermont

Moderator: Shijun Gao, Arizona State University

#### **Marketing Sustainably-Grown Pecans by Means of Water Footprint**

*Katherine Fuller, Tufts University; Carola Grebitus, Arizona State University*

#### **Comparing Product Claims on Animal-Sourced and Plant-Based Alternatives of Popular Consumer Goods in Online Grocery Stores**

*Suzannah Gerber, Tufts University; Sadie Dix, Tufts University; Sean B. Cash, Tufts University*

#### **National Stated Demand for Hemp Based Products**

*Hannah Lacasse, University of Vermont; Jane M. Kolodinsky, University of Vermont; Tyler B. Mark, University of Kentucky; Rebecca Hill, Colorado State University; William M. Snell, University of Kentucky*

#### **Revealed Preferences for Hemp Based Products**

*Jane M. Kolodinsky, University of Vermont; Yuqing Zheng, University of Kentucky; Tyler B. Mark, University of Kentucky; Hannah Lacasse, University of Vermont; Jeff Buzas, University of Vermont*

#### **A Cross-Country Choice Experiment on Naming Effects for Cellular Agricultural Meat Products**

*Katherine Fuller, Tufts University; Larissa Drescher, C3 Team Germany; Caroline Andrews, Tufts University; Sean B. Cash, Tufts University*



## Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM

### Experimental and Behavioral Evidence of Sustainability Promotion

Gallaudet University (M1)

#### Track Session-Experimental Economics Sections and Institutional & Behavioral Economics Section

Sustainability promotion is drawing heightened attention. How do consumers or business operators value sustainability promoting measures and how do sustainability promoting organizations evaluate sustainability-promoting interventions? Using discrete choice experiments or field experiments, the four papers presented in this session show experimental and behavioral evidence of sustainability promotion, particularly food waste reduction, from different angles. The two stated preference studies reflect consumer or business operator preferences towards sustainability promoting measures taken by restaurateurs, and preferences vary across different implemented measures including behavioral nudges, information, and food waste management practices. The two field experiments provide evidence of food waste mitigation effort paid by local organizations in two states of the US. Treatment effects are estimated in Ohio while pricing strategies are tested in Arizona. The session offers meaningful results and policy relevant implications to sustainability promoting individuals, businesses, and policy makers.

Organizer: Alan Yilan Xu, Arizona State University

Moderator: Alan Yilan Xu, Arizona State University

#### Means and Ends Nudges, Information Effect, and Consumer Restaurant Patronage

Alan Yilan Xu, Arizona State University; Wuyang Hu, The Ohio State University

#### Restaurant Owner Willingness to Pay to Reduce Back of House Food Waste

Yiheng Shu, Jiangnan University; Wuyang Hu, The Ohio State University; Brian E. Roe, The Ohio State University

#### It's Ugly! Retail Food Waste and Consumer Quality Preferences

Ekaterina Stolarova, Arizona State University; Carola Grebitus, Arizona State University

#### Evaluation of a Community-Based Food Waste Campaign Using a National Control Group

Brian E. Roe, The Ohio State University; Yiheng Shu, Jiangnan University; Andrew Booker, Solid Waste Authority of Central Ohio; Jane Karetny, Solid Waste Authority of Central Ohio; Kyle O'Keefe, Solid Waste Authority of Central Ohio; Lucy Schroeder, Solid Waste Authority of Central Ohio

### EXT-GSS Extension Competition Winners

Howard University (M1)

#### Track Session-Extension Section and Graduate Student Section

Each year, the Extension Section (EXT) and Graduate Student Section (GSS) co-sponsor a Graduate Student Extension Competition. The competition provides an opportunity for graduate students to develop extension and outreach skills through written and verbal communication. In their written proposal and presentation, graduate students motivate an extension program plan, describe their goals, and discuss their approach to disseminate their research to stakeholders. Over this track session, the three winners of this year's EXT-GSS Extension Competition will present their extension proposals.

Organizer: Megan N. Hughes, Purdue University

Moderator: Megan N. Hughes, Purdue University

Competition Winner 1

Competition Winner 2

Competition Winner 3



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

### **Economics of Climate and Resilience in Agriculture**

*Catholic University (M1)*

#### **Track Session-Australasia Section**

Against a backdrop of rising temperatures and increasing frequency of extreme weather events, agricultural production around the world is facing challenges from a changing climate. This session will feature four graduate students presenting on the topic of climate change resilience in industrialized agriculture to provide insights applicable to the Australasian region. Presenters tackle different aspects of the relationship between agriculture and climate, from farmer-level decision making to industry-wide implications. Sarah Smith shows the relationship between climate and Californian wine quality, including the role of collective reputation. Jerzy Jaromczyk analyzes the effects of weather shocks on the U.S. agricultural credit system and its ability to serve the sector. Isabelle Picciotto explores the role of policy in influencing farmers' climate resilience in the context of Californian irrigated agriculture. Tianzi Liu examines how U.S. farmers' planting decisions adapt to climate change.

Organizer: Sarah Smith, University of California, Davis

#### **Implications of Climate Change for the Benefits of Collective Reputation Created by AVAs for California's Wine**

*Sarah Smith, University of California, Davis*

#### **Climate Change and Agricultural Credit Markets**

*Jerzy Jaromczyk, Cornell University*

#### **Evaluating the Impacts of California's State Water Efficiency and Enhancement Program**

*Isabelle Picciotto, University of California, Davis*

#### **Climate Change and Cropland Allocation**

*Tianzi Liu, Cornell University*

### **Land Pressure in Sub-Saharan Africa: Implications for Tenure Security, Agricultural Productivity and Economic Development**

*Scarlet Oak (2nd Floor)*

#### **Track Session-Africa Section and Committee on the Black Opportunities & Status of Blacks in Agricultural Economics**

Rapid population growth and climate change in many parts of sub-Saharan Africa (SSA) increasingly put pressure on smallholder farmers to increase agricultural productivity (Otsuka and Place, 2015). As a result, smallholders need to invest in land and soil fertility (Jayne et al., 2014). However, widespread tenure insecurity among smallholders in SSA is one of the major factors that inhibits such investment (Wineman and Jayne 2018). The three papers in this session all use recent datasets from different countries in SSA to address issues related to land tenure security, gender rights and population density. The common question that these papers set out to answer is: how do these land related issues affect agricultural productivity and household welfare? The session will begin with a five-minute overview by the moderator. Each presenter will have 15 minutes to present research, followed by 5 minutes from a discussant, then 5 minutes of audience questions.

Organizer: Jacob Ricker-Gilbert, Purdue University

Moderator: Jacob Ricker-Gilbert, Purdue University

#### **What's Hers Isn't Mine? Tenure Security and Agricultural Investments and Productivity in Sub-Saharan Africa**

*Martin Limbikani Mwale, Stellenbosch University; Jacob Ricker-Gilbert, Purdue University*

#### **"Clearing to Claim" and Evolving Land Institutions in Zambia**

*Jordan Chamberlin, International Maize and Wheat Improvement Center; William J. Burke, Michigan State University*

#### **More People, Less Erosion? Agricultural Intensification and Soil Fertility Dynamics in Densely Populated Areas of Kenya**

*Milu Muyanga, Michigan State University; Daniel Kyalo Willy, African Agricultural Technology Foundation; Thomas S. Jayne, Michigan State University; Joseph Mbuvi, University of Nairobi*



## **Concurrent Sessions ★ Tuesday, 2:45 PM - 4:15 PM**

### **The Cost of Choosing a Healthy Diet: Looking Beyond the Ideal**

*George Washington University (M1)*

#### **Track Session-Health Economics Section and Food Safety & Nutrition Section**

Cost and time are two barriers commonly presented in the literature as to why consumers do not choose healthy diets. Researchers have modeled low-cost healthy diets such as the Thrifty Food Plan market basket or suggested mixes of lower cost fruits and vegetables that will meet Federal Dietary Guidance. Although time and cost are considered in these proposed diets, it is important to look at the food choices made by those who do eat healthy diets. In this session our presenters use a variety of government datasets and tools (e.g., American Time Use Survey, NHANES, FoodAPS, Purchase-To-Plate) to investigate food costs, time use and healthfulness of both modeled and observed dietary patterns, with an eye toward both an understanding of the changing nature of barriers to acquiring healthy foods as well as policy implications.

Organizers: Andrea C. Carlson, USDA- Economic Research Service; Sean B. Cash, Tufts University

Moderator: Christian A. Gregory, USDA-Economic Research Service

#### **U.S. Fruit and Vegetable Affordability on the Thrifty Food Plan Prior to the COVID-19 Pandemic**

*Sabrina K. Young, USDA-Economic Research Service; Hayden Stewart, USDA-Economic Research Service*

#### **Household Food Acquisition HEI and Time Use: An Unconditional Quantile Approach**

*Alessandro Bonanno, Colorado State University; Sachintha S. Mendis, Colorado State University*

#### **Differences in the Distributions of Diet Quality Between Households Above and Below Poverty**

*Rebecca Cleary, Colorado State University; Andrea C. Carlson, USDA- Economic Research Service; Sabrina K. Young, USDA-Economic Research Service*

#### **Cost of Grocery Foods Consumed by U.S. Adults in NHANES**

*Jessie Jie Lan, Tufts University; Katherine Fuller, Tufts University; Lu Wang, Tufts University; Nicole T. Blackstone, Tufts University; Andrea C. Carlson, USDA- Economic Research Service; Nicola McKeown, Boston University; Patrick Webb, Tufts Univ; Fang Fang Zhang, Tufts University*

### **Evidence of International Trade Impact on Food Consumption**

*Georgetown University (M1)*

#### **Track Session-Latin America Section and International Section**

In recent years, the impact of international trade on domestic consumption has been controversial. Some argue that food exports make food less affordable to the population in the domestic market. While, others argue that food exports make food more affordable in the international and domestic markets. This session's objective is to bring empirical data into the discussion, while providing more information regarding produce exports from Latin-America to developed countries.

Organizer: Andres Silva, Universidad Central de Chile

Discussant: Steven S. Zahniser, USDA-Economic Research Service

#### **Costa Rican Banana Exports to the United Kingdom: Business Implication**

*Luis Kluwe Aguiar, Harper Adams University*

#### **Domestic Market in an Export Country: The Case of the Cherry and Avocado from Chile**

*Andres Silva, Universidad Central de Chile; Luis A. Ribera, Texas A&M University*

#### **How Can We Capitalize on Fish Diversity to Improve Nutrition in the Region?**

*Sofia K. Vielma Delano, Purdue University*



## **Concurrent Sessions ★ Tuesday, 4:45 PM - 6:15 PM**

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### **The Political Economy of Farm Labor, Natural Resources, and Agricultural Innovation**

Salons 6-10 (M2)

#### **Invited Paper**

Both economic system and political system are critical for resource allocation. In some cases, the political system dominates the economic system, but in most cases, the relationship is symbiotic. So economic analysis needs to incorporate political considerations to realistically understand resource allocation. This session includes three papers about political economy of farm labor and guest worker policy, natural resources, and agricultural innovation that shed insights on some of the pressing issues in current U.S. agriculture.

Organizer: Ruiqing Miao, Auburn University

Moderator: Jill J. McCluskey, Washington State University

Discussant: Jill J. McCluskey, Washington State University

#### **The Political Economy of Farm Labor and Guest Worker Policy**

*Diane Charlton, Montana State University*

#### **The Political Economy of Natural Resources**

*David Zilberman, University of California, Berkeley*

#### **The Political Economy of Agricultural Innovation: A Review**

*Ruiqing Miao, Auburn University*

### **Risk Management Programs and the 2023 Farm Bill**

Salon 13 (M2)

#### **Organized Symposium**

The negotiations over the 2023 Farm Bill cover commodity support and risk management programs, and these account for a significant share of USDA expenditures, though in the last several years, expenditures on ad hoc support for farmers and ranchers have dominated direct support from Farm Bill programs. Federal crop insurance, while largely covered under other legislation, also has a Farm Bill component and also represents a substantial portion of USDA expenditures. Congressional budget disciplines, high input prices, and weather volatility are among the factors playing into the negotiations over program changes feeding into the 2023 Farm Bill, as may be the use of these instruments to further environmental goals, such as promoting the adoption of cover crops. This discussion will provide government, industry, and academic perspectives on issues regarding changes to risk management programs in the Farm Bill, their implementation, and their relationship to Federal crop insurance and ad hoc support.

Moderator: Joseph C. Cooper, USDA-Office of the Chief Economist

Panelists: Barry K. Goodwin, North Carolina State University; Joy L. Harwood, USDA-Farm Service Agency; Seth D. Meyer, USDA; Xuan T. Pham, USDA-FPAC; Thomas P. Zacharias, National Crop Insurance Services

#### **Issues in Title II Support**

*Joseph C. Cooper, USDA-Office of the Chief Economist*





## **Concurrent Sessions ★ Tuesday, 4:45 PM - 6:15 PM**

### **Frontier Issues of On-farm Risk Management using Agricultural Practices: What is Germane and what is Inane**

*Tulip (2nd Floor)*

#### **Track Session-Applied Risk Analysis Section**

On-farm risk management is a deep, traditional topic of agricultural production that is closely linked to financial sustainability. It is perennially important and constantly evolving both in terms of risks that producers face and the management options available to them. The first presentation uses field-trial data for North Carolina corn and soybeans to investigate the effects of conservation tillage practices on yield risk. The second presentation leverages pesticide-use data to determine whether a relatively new pest management technology in California tree nut production (mating disruption) acts as a substitute or complement relative to traditional pesticide use. The third presentation analyzes transaction data in Kansas to identify locational and economic factors driving farmland turnover. The final presentation proposes a novel dataset for measuring the spatial correlation of weather shocks for major row crops based on fine scale gridded weather data.

Organizer: Austin F. Ramsey, Virginia Tech

Moderator: Austin F. Ramsey, Virginia Tech

#### **The Impact of Conservation Tillage Intensities on Mean Yields and Yield Risk**

*Ayesha Cooray, North Carolina State University; Roderick M. Rejesus, North Carolina State University; Serkan Aglasan, North Carolina State University; Zheng Li, North Carolina State University; Alex Woodley, North Carolina State University*

#### **Does Mating Disruption Decrease Insecticide Use? Evidence from Navel Orangeworm Management in California Tree Nut Orchards**

*Scott Somerville, University of California, Davis; Brittney K. Goodrich, University of California, Davis*

#### **Determinants of Kansas Farmland Transaction Frequency**

*Alan Hinds, Kansas State University; Jennifer Ifft, Kansas State University*

#### **Global Spatial Correlation of Weather Shocks for Major Row Crops**

*Kristiina Ala-Kokko, Kansas State University; Jesse Tack, Kansas State University*

### **The Impact of Climate Change on Global Agriculture: Recent Evidence from Three Methodological Approaches**

*Scarlet Oak (2nd Floor)*

#### **Track Session-Land, Water, & Environmental Economics Section**

Climate change significantly impacts crop growth and production, which may undermine the resilience of global food systems. Understanding the impact of climate change on global food production is, therefore, critical for ensuring global food security. The economic impacts of climate change on global agriculture have been extensively assessed over the past decades using CGE, IAM, and econometric methods. However, each of these methods have improved over time. This session will present the latest global results from each of these methods. For example, the number of crops considered has increased in the EPPA-Agriculture model, the GCAM model now explicitly captures the storage of agricultural outputs, and a new effort to synthesize the results of multiple Ricardian studies leads to new insights. The presentations will be followed by a discussion of the key takeaways from these three papers.

Organizer: Robert Mendelsohn, Yale University

Discussants: Robert Mendelsohn, Yale University; Luis Peña-Lévano, University of Wisconsin-River Falls

#### **Climate Change Effects on Global Agricultural Markets: Challenges to Assess Economic Impacts and Broad Adaptation Mechanisms**

*Angelo Gurgel, MIT Joint Programme on the Science and Policy of Global Change; John M. Reilly, MIT; Elodie Blanc, MIT*

#### **The Critical Role of Agricultural Storage and Trade in Moderating Climate and Biophysical Shocks**

*Xin Zhao, Joint Global Change Research Institute, PNNL; Marshall Wise, Joint Global Change Research Institute; Gokul Iyer, Pacific Northwest National Laboratory*

#### **The Impact of Climate Change on Global Agriculture: Evidence from the Ricardian Literature**

*Allan Beltran, University of Birmingham; Saul Basurto Hernandez, National University of Mexico UNAM; Robert Mendelsohn, Yale University*



## **Concurrent Sessions ★ Tuesday, 4:45 PM - 6:15 PM**

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### **Farm Financial Outlook**

*Cherry Blossom (2nd Floor)*

#### **Track Sessions-Agricultural Finance & Management and Extension Section**

This session provides a high-level but detailed outlook in three key areas underlying an agricultural operation's balance sheet: farm income, farm credit and agricultural banking, and land values. Each panelist will examine the factors that indicate where measures of income, debt, and land value are heading as the agricultural economy moves away from the major changes that occurred between 2019 and the present day. In a context characterized by high interest rates and input prices, such forecasts are a challenging but crucial part of understanding the future of US agriculture, particularly as we head into a new Farm Bill cycle.

Organizer: Margaret C. Jodlowski, The Ohio State University

Discussant: Allen M. Featherstone, Kansas State University

#### **Land Values Outlook**

*Mykel R. Taylor, Auburn University*

#### **Farm Income Outlook**

*Todd H. Kuethe, Purdue University*

#### **Farm Credit and Agricultural Banking Outlook**

*Cortney A. Cowley, Federal Reserve Bank of Kansas City*

### **Local and Organic Food Production and Distribution**

*Dogwood (2nd Floor)*

#### **Selected Presentation**

Empirical, economic and theoretical aspects of the food industry.

Moderator: Lan T. Tran, University of Missouri-Columbia

#### **Modeling and Measuring Home-Grown Capital: Theory and Applications to California Tree Fruits, Nuts, and Vines**

*Julian M. Alston, University of California, Davis; Wei Zhang, Virginia Tech*

#### **Evaluating the Economic Viability of Monitoring-Based Pest Management Strategies: A Bioeconomic Framework for Organic Blueberry Production in Oregon**

*Adeline Yeh, USDA-Economic Research Institute; Bingyan Dai, Cornell University; Miguel I. Gomez, Cornell University; Vaughn Walton, Oregon State University*

#### **A National Database of Highly Perishable Fresh Produce Production With Temporal and Spatial Resolution**

*Jing Yi, Cornell University; Patrick N. Canning, USDA-Economic Research Service; Houtian Ge, Cornell University; Sarah Rehkamp, USDA-Economic Research Institute; Miguel I. Gomez, Cornell University*

#### **How do Local Food Producers Participate in State-Sponsored Marketing Programs? Evidence from Real Choice Data in Missouri**

*Lan T. Tran, University of Missouri; Ye Su, Lincoln University of Missouri; Laura M. McCann, University of Missouri*



## Concurrent Sessions ★ Tuesday, 4:45 PM - 6:15 PM

### Financial Risk Management

Judiciary Square (M3)

#### Selected Presentation-Lightning Session

The session will look at different aspects of farm risk management.

Moderator: Michael K. Adjemian, University of Georgia

Impact of Subsidy on Livestock Risk Protection for Fed and Feeder Cattle

Christopher N. Boyer, University of Tennessee; Eunchun Park, University of Arkansas; Andrew P. Griffith, University of Tennessee; Karen L. DeLong, University of Tennessee; Charles Martinez, University of Tennessee

Assessing the Relationship Between Public Stockholding and Market Price Dynamics: The Case of Wheat Market in India

Ashutosh K. Tripathi, BIRD; Ashok K. Mishra, Arizona State University

Pricing Derivatives in the Agricultural Land Market

Marlene Kionka, Humboldt-Universität Zu Berlin; Henning Brunckhorst, Humboldt-Universität Zu Berlin; Todd H. Kuethe, Purdue University; Martin Odening, Humboldt Universität Zu Berlin

Market Stress in Agricultural Markets: Can Alternative Implied Volatility Measures Predict It?

Mahendra Kumar Singh, Iowa State University; Sergio H. Lence, Iowa State University

Do USDA Announcements Contribute to Market Ambiguity?

Michael K. Adjemian, University of Georgia; Guillaume Bagnarosa, Rennes School of Business; Alexandre Gohin

Impact of Interest Rates on Agricultural Commodity Price Dynamics

Zhining Sun, The Ohio State University; Ani Katchova, The Ohio State University

Dynamic Market Momentum: The Case of Intraday Coffee Futures Prices

Anabelle Couleau, Universidad EAFIT; Andres A. Trujillo-Barrera, University of Idaho; Xiaoli L. Etienne, University of Idaho

Do Speculative Trader Positions Lead Returns in Agricultural Derivatives Markets? An Analysis Using Confidential and Comprehensive Daily-Frequency Data

Michael K. Adjemian, University of Georgia; Christopher Burns, Commodity Futures Trading Commission; Daniel Prager, Commodity Futures Trading Commission

### Agricultural Policy - Food Policy

Howard University (M1)

#### Selected Presentation

Four selected papers focusing on food policy topics. Marketing Margins in Cannabis Products. Universal Free School Meals. Food Commodity Price Movements. Local and Regional Food Systems.

Moderator: Allison Bauman, Colorado State University

Food Commodity Price Movements: Disentangling the Role of Energy Prices and Supply-Demand Fundamentals

John Baffes, The World Bank; Xiaoli L. Etienne, University of Idaho

Diffusion of Universal Free School Meals in the United States: Examining Factors Influencing Adoption of Community Eligibility Provision

Pratyosh Kashyap, Colorado State University; Becca B. R. Jablonski, Colorado State University

Marketing Margins in Cannabis Products: Empirical Analysis

Olena Sambucci, University of California, Davis; Daniel A. Sumner, University of California, Davis; Robin Goldstein, University of California, Davis

Conducting Economic Research on Local and Regional Food System

Becca B. R. Jablonski, Colorado State University; Allison Bauman, Colorado State University; Adeline Yeh, USDA-Economic Research Institute



## **Concurrent Sessions ★ Tuesday, 4:45 PM - 6:15 PM**

### **Non-market Valuation**

Shaw (M3)

#### **Selected Presentation-Lightning Session**

This session brings together recent advances and applications of non-market valuation.

Moderator: Bijeta Bijen Saha, University of Florida

#### **Valuation of Water Quality Change in Environment and Economy Context: Ecosystem Services and Biological Conditions Across Gradients of Degradation and Local Economic Interest**

Charles A. Towe, University of Connecticut; Pengfei Liu, University of Rhode Island; Ruirui Dang, University of Connecticut; Stephen K. Swallow, University of Connecticut

#### **Producers Willingness to Adopt Best Management Practices in Floridan Aquifer Region**

Fei He, University of Florida; John Lai, University of Florida; Christa D. Court, Food and Resource Economics, University of Florida; Tatiana Borisova, USDA; Kevin R. Athearn, University of Florida

#### **Model Choice, Hypothetical Bias and Risk Aversion: A Charitable Donation Application**

Jerrod Penn, Louisiana State University; Gregory E. Howard, East Carolina University; Wuyang Hu, The Ohio State University

#### **The Value of Clean Water in Rivers and Streams: Evidence from Water-Adjacent Property Values**

Mohammad Mainul Hoque, Cornell University; Yongjie Ji, Iowa State University

#### **Evaluating Stakeholder Preferences in Aquatic Invasive Plant Management: Evidence from a Choice Experiment in Florida**

Abhishek Rajan, University of Florida; Olesya Savchenko, University of Florida; Candice Prince, University of Florida; James Leary, University of Florida

#### **The Impact of Remote Work on Green Space Values in Regional Housing Markets**

Khyati Malik, The Ohio State University; Sowon Kim, The Ohio State University; Brian J. Cultice, The Ohio State University

#### **The Economic Impacts of Harmful Algal Blooms on Property Values in Southwest Florida**

Bijeta Bijen Saha, University of Florida; Xiaohui Qiao, University of Florida; Olesya Savchenko, University of Florida

### **Value, Implementation, and Effectiveness of Food Labeling Practices**

Salon 15 (M2)

#### **Selected Presentation**

This paper session covers topics concerning food labeling practices intersected with consumer behaviors. Comparisons of food labeling strategies shed light on the information that is conveyed to consumers when making food purchasing decisions.

Moderator: Aaron A. Adalja, Cornell University

#### **How do Consumers Value Nutri-Score and Eco-Score Labels on Meat and Meat Alternatives? Evidence from China**

Haoran Li, Wageningen University & Research; Ellen J. Van Loo, Wageningen University and Research; Vincenzina Caputo, Michigan State University; Hans C.M. Van Trijp, Wageningen University & Research

#### **Every Step You Take: Nudging Animal Welfare Product Sales in a Virtual Supermarket**

Nina Weingarten, University of Bonn; Leonie Bach, University of Bonn; Wen-Xiu Wang, Technical University of Munich; Jutta Roosen, Technical University of Munich; Monika Hartmann, University of Bonn

#### **The Effect of Front-Of-Package Nutrition Labelling on Product Composition**

Christoph Bauner, University of Massachusetts; Rajib Rahman, University of Massachusetts Amherst

#### **Exceptions in Quality Certifications and Consumer Demand for Seemingly Redundant Food Labels**

Geqing Zhou, Cornell University; Aaron A. Adalja, Cornell University



## **Concurrent Sessions ★ Tuesday, 4:45 PM - 6:15 PM**

### **Impacts of COVID on Food Consumption and Diet Quality**

*Capitol Hill (M3)*

#### **Selected Presentation**

Although the pandemic may be nearing an end (we hope), the effects of it on food purchasing, consumption and nutritional outcomes may be long lasting. This session presents evidence on how COVID and the associated lock downs affected households in developing countries in terms of grain stockpiling behavior in China and children's nutritional outcomes in India. It also looks at the affects of COVID in the United States in terms of changes in shopping behaviors, and how these changes affected food insecurity and diet quality disparities by racial and ethnic group.

Moderator: Bridget Y. Bafowaa, South Dakota State University

#### **Effects of COVID-19 on Grain Stockpiling Behavior in Rural Households: Evidence from China**

*Songqing Jin, Michigan State University; Jiayang Lyu, Zhejiang University; Jun Guo, Research Center for Rural Economy, China*

#### **Did the 2020 COVID-19 Lockdown Reverse the Nutritional Gains in Children? Evidence from Primary Panel Data in Rural India**

*Payal Seth, Tata- Cornell Institute for Agriculture and Nutrition; Soumya Gupta, Cornell University; Prabhu L. Pingali, Cornell University*

#### **The Effect of COVID-19 on Food Sales at the State Level**

*Eliana Zeballos, USDA-Economic Research Services; Wilson J. Sinclair, USDA-Economic Research Service; Keenan Marchesi, USDA-Economic Research Service*

#### **Amplification Or Mitigation? The Role of Online Grocery Shopping in the Relationship Between Food Environment and Diet Quality**

*Pei Zhou, The Pennsylvania State University; Yizao Liu, The Pennsylvania State University*

#### **But What To Eat? A Look At Consumer Food Sourcing Throughout the COVID Pandemic and Beyond**

*Keenan Marchesi, USDA-Economic Research Service; James C. Zachary, USDA-Economic Research Service*

#### **The Impact of COVID-19 on Racial/Ethnic Disparities in Diet Quality**

*Yuxuan Pan, The Pennsylvania State University; Linlin Fan, The Pennsylvania State University; Stephan J. Goetz, The Pennsylvania State University; Alexander Stevens, USDA-Economic Research Service*

#### **Impacts of COVID-19 Stimulus Payments on Food Insufficiency and Expenditure Difficulty Among Ethnic Minority Groups**

*Zheng Tian, The Pennsylvania State University; Claudia Schmidt, The Pennsylvania State University; Stephan J. Goetz, The Pennsylvania State University*

#### **Impact Of COVID-19 Relief Packages on U.S. Household Food Expenditures**

*Bridget Y. Bafowaa, South Dakota State University; Andrea Leschewski, South Dakota State University*



**Concurrent Sessions ★ Tuesday, 4:45 PM - 6:15 PM**

**Health Economics - Lightning Session 1**

Chinatown (M3)

**Selected Presentation-Lightning Session**

Title for the program: Health Economics: Policies, Disparities, and Behavioral Impacts

Moderator: Ralph Jean-Pierre, Oklahoma State University

"Far from Happiness": The Impact of Children's Migration Distance on Left-Behind Parents' Mental Health in Rural China  
*Zhihao Wu, Zhejiang University; Jingqi Dang, Chongqing University; Longbao Wei, Zhejiang University*

Prescription Limiting Laws Effects on Opioid Misuse in the United States

*Sulin Chowdhury, University of Connecticut*

The Economics of Environmental Health Disparities: Who Benefits from Coal Power Plant Closures?

*Adrienne Ohler, University of Missouri*

Maternal Mortality, Race, and the Abortion Laws of the 1960s and 1970s

*Tia M. McDonald, USDA-Economic Research Service*

Does Childhood Access to SNAP Lead to Better Adult Mental Health? Evidence from PSID

*Lingxiao Wang, University of Wisconsin-Madison; Haoyuan Xia, University of Wisconsin - Madison*

Effects of Hypertension Diagnoses on Alcohol Consumption Among Chinese Adults—Evidence from A Two-Dimensional Regression Discontinuity Design

*Qihui Chen, China Agricultural University; Juerong Huang, China Agricultural University; Yongjing Dang, China Agricultural University; Yue Hu, China Agricultural University*

A Comprehensive Analysis of Tobacco Control Policies Within a Smoothed Instrumental Variables Quantile Regression Framework

*Vahé Heboyan, Augusta University; Vardges Hovhannisyan, University of Wyoming; Rafael Bakhtavoryan, Texas A&M University*

Poultry Export Bans' Incidence on U.S. Poultry Producers: The 2014-2015 Highly Pathogenic Avian Influenza Outbreak

*Ralph Jean-Pierre, Oklahoma State University; Amy D. Hagerman, Oklahoma State University*

**International Development: Agricultural Shocks, Health, and Nutrition**

LeDroit Park (M3)

**Selected Presentation**

Moderator: Diamilatou Kane, Purdue University

Reducing Antibiotics: Evidence from an Experiment Among Poultry Farmers in China

*Annemie Maertens, University of Sussex; Meike Wollni, University of Göttingen; Jaizhu Wei, University of Göttingen; Lingzhi Li, Nanjing Agricultural University; Li Zhou, Nanjing Agricultural University*

Poverty, Infectious Disease Control, and Externalities in Rural Economies

*Molly Doruska, Cornell University; Christopher B. Barrett, Cornell University; Jason R. Rohr, University of Notre Dame*

Agricultural Shocks and Conflict in the Short- and Long-Term: Evidence from Desert Locust Swarms

*Pierre E. Biscaye, University of California, Berkeley*

Strategies for Increasing Food Safety Practices Among Smallholder Farmers: Reducing Aflatoxins in Senegal

*Jacob Ricker-Gilbert, Purdue University; Jonathan Bauchet, Purdue University; Kajal Gulati, Purdue University; Diamilatou Kane, Purdue University*



## **Concurrent Sessions ★ Tuesday, 4:45 PM - 6:15 PM**

### **Understanding the Complexities of Global Trade Regulations in Agricultural Markets**

Mount Vernon Square (M3)

#### **Selected Presentation-Lightning Session**

The session delves into the complexities of global trade policies in the agricultural sector, featuring papers on topics such as China's antidumping investigations, non-tariff measures, and the protection of geographical indications. Cross-country comparisons and analyses will provide insights into the implications of trade conflicts and GHG emissions on agricultural trade.

Moderator: Sandro Steinbach, North Dakota State University

#### **Non-Tariff Measures and U.S. Agricultural Trade**

*Yunus Emre Karagulle*, Virginia Tech; *Charlotte Emlinger*, Virginia Tech; *Jason Grant*, Virginia Tech; *John C. Beghin*, University of Nebraska-Lincoln

#### **China's Antidumping Investigations Against U.S. Feed Products: Lessons from the Trenches**

*Bryan Lohmar*, California Polytechnic State University

#### **Global Agri-Food Value Chains and Intellectual Property Rights in International Trade**

*Saera Oh*, Michigan State University; *Sunghun Lim*, Louisiana State University; *Titus O. Awokuse*, Michigan State University

#### **Protection of Geographical Indications in Trade Agreements: Is It Worth It?**

*Charlotte Emlinger*, Virginia Tech; *Karine Latouche*, INRA

#### **Cross-Country Comparison and Decomposition of Trade-Adjusted GHG Emission Footprints in Major Agricultural Crops**

*Kiseok Shin*, Virginia Tech; *Xi He*, Virginia Tech; *Hazelle Tomlin*, Icf; *Jason Grant*, Virginia Tech; *Shawn Arita*, USDA-Office of the Chief Economist; *Jason P. H. Jones*, ICF; *Sharon Sydow*, USDA-Office of the Chief Economist; *Jeffrey K. O'Hara*, USDA - Office of the Chief Economist

#### **Revisiting the Effects of Trade Remedies on U.S. Agricultural Imports**

*Colin Andre Carter*, University of California, Davis; *Sijia Chen*, University of Connecticut; *Sandro Steinbach*, North Dakota State University

#### **Impact of Non-Tariff Measures on Agri-Food Trade: Quantitative and Qualitative Regulatory Differences**

*Yuko Akune*, Nihon University

#### **Global Grain Trade Implications of the Russia-Ukraine War**

*Soojung Ahn*, University of Connecticut; *Dongjin Kim*, University of Connecticut; **Sandro Steinbach**, North Dakota State University

### **Papers in Education and Extension**

Union Station (M3)

#### **Selected Presentation**

This session includes two groups of papers covering education and extension. In education, two papers focus on the value beyond the classroom, whether that be from mentoring or the subsequent wages after graduation. For extension, the two papers focus on the use of farmer networks in programming. This includes private social media groups and organized participation with like minded individuals.

Moderator: Jaclyn D. Kropp, University of Florida

#### **Using Social Media to Train Aquaculture Farmers: Experimental Evidence from Bangladesh**

*Marzuk Hossain*, BRAC Institute of Governance and Development; *Tahmid Bin Mahmud*, BRAC Institute of Governance and Development; *Khandker Wahedur Rahman*, University of Oxford; *Munshi Sulaiman*, Save the Children

#### **Social Learning for the Green Transition: Evidence from a Pesticide Reduction Policy**

*Rose Deperrois*, INRAE; *Adelaide Fadhuile*, Univ. Grenoble Alpes; *Julie Subervie*, Centre D'économie De L'environnement Montpellier

#### **A Case Study on the Drivers of Wages in the Latin America Agricultural Sector**

*Luis A. Sandoval M*, Zamorano University; *Julio Penados*, Zamorano University; *Jose M. Galeas*, Zamorano University; *Carlos E. Carpio*, Texas Tech University; *Raul Soto*, Zamorano University

#### **Theory-Based Mentoring for Multicultural Scholarship Recipients**

*Jaclyn D. Kropp*, University of Florida; *Danielle D. Shu*, University of Florida; *Misti D. Sharp*, University of Florida



## **Concurrent Sessions ★ Tuesday, 4:45 PM - 6:15 PM**

### **Challenging Dynamics for Agricultural Transportation**

*Georgetown University (M1)*

#### **Track Session-Food & Agricultural Marketing Policy Section and Agribusiness Economics & Management**

There have long been challenges in agricultural transportation and logistics. The COVID-19 pandemic brought many of those challenges to the forefront. All modes of agricultural transportation have recently been impacted beyond the pandemic, whether it be barge transportation along the Mississippi River, refrigerated transportation in long-haul trucking, or precision rail transportation across the United States. This session explores the trends, markets, and policies that govern food and agricultural transportation and impact the industry. The session highlights food and agricultural transportation as a critical component of the agri-food supply chain that has found efficiency in agricultural production, food manufacturing, and retail sales that no longer requires co-location. All four papers are linked by transportation issues that directly impact the agri-food supply chain; each of them providing a unique angle to understand the challenging dynamics for food and agricultural transportation.

Organizers: William Secor, University of Georgia; Shellye A. Suttles, Indiana University

#### **Challenging Dynamics for Agricultural Shippers**

*Kranti Mulik, USDA-Agricultural Marketing Service; Peter Cafarelli, USDA*

#### **The Effect of Precision Scheduled Railroading on Agricultural Shipper Service**

*Heidi Schweizer, North Carolina State University; William Secor, University of Georgia*

#### **Examining Variation in the Cost of Refrigerated Specialty Crop Transportation**

*Tara Wade, University of Florida; Shellye A. Suttles, Indiana University; Lurleen M. Walters, University of Florida; Wesley M. Zebrowski, Indiana University*

#### **Exploring Links Between Stricter Enforcement of Driver Hours-of-Service and Entry/Exit in the Refrigerated Trucking Sector**

*Yue Shan, North Carolina State University; Kathryn A. Boys, North Carolina State University; Heidi Schweizer, North Carolina State University*

### **Exploring Careers in Academia, Industry, and Government**

*Magnolia (2nd Floor)*

#### **Track Session-Graduate Student Section**

Graduate students dread the question “What are you going to do when you graduate?” But at some point, job market candidates need to make an informed decision about which career best suits their interests. The goal of this track session is to offer insights into the three main career paths that agricultural and applied economics graduates follow: (i) academia, (ii) industry, and (iii) government. Using a panel consisting of academics, industry members, and government employees—as well as individuals that have spent time in multiple sectors—we will hear about the advantages and drawbacks of each career path. Following a brief introduction from each of our panelists, we will hold an open discussion where audience members are encouraged to ask questions and contribute to the discussion.

Organizer: Roberto F. Koeneke, University of Florida

Moderator: Roberto F. Koeneke, University of Florida

#### **Career Path in Academia: Professorships**

*Charlotte Ambrozek, University of Minnesota; Kristin Kiesel, University of California, Davis*

#### **Career Path in Academia: Lecturers**

*Misti D. Sharp, University of Florida*

#### **Career Path in Government**

*Andrew R. Sowell, USDA-Economic Research Service*

#### **Career Path in NGOs**

*Laura Leavens, University of Wisconsin-Madison*

#### **Career Path in Academia: Professorships**

*Kristin Kiesel, University of California, Davis*





## **Concurrent Sessions ★ Tuesday, 4:45 PM - 6:15 PM**

### **State of the Industry Beer Panel**

*Silver Linden (2nd Floor)*

#### **Track Session-Brewing & Enology Economic Research**

Presentations in this session draw a picture of the state of the craft beer industry as it pertains to measures undertaken in beer and wine production. First presentation collects data from in-person interviews to explore how craft beer industry in Saskatchewan, Canada survived demand disruptions due to the COVID-19 pandemic and remained in business. Second presentation experiments with crop inputs within the Yakima Valley hop growing region and shows how craft brewers can substantially decrease their carbon print by incorporating sustainability criteria in their hop purchasing chain. Third presentation explores the recent fragmentation in the Armenian wine industry and draws similarities and differences it has with the U.S. craft beer industry. Fourth presentation uses restricted microdata from the Colorado Quarterly Census of Employment and Wages and microdata on Paycheck Protection Program loan recipients to assess the impact of the COVID-19-relief program on employment in craft breweries.

Organizers: Ezgi Cengiz, North Carolina State University; Michael P. McCullough, California Polytechnic State University

Moderators: Ezgi Cengiz, North Carolina State University; Michael P. McCullough, California Polytechnic State University

#### **Crisis, Adaptation, and Innovation in Saskatchewan: Crafty Brewers and Their Pandemic Survival**

*Nicholas Tyack, University of Saskatchewan; Richard S. Gray, University of Saskatchewan*

#### **Sustainability As a Purchasing Criteria in the Brewery Hop Supply Chain**

*Spencer Tielkemeier, Yakima Chief Hops*

#### **Understanding Wine Producer Characteristics in Armenia**

*Gnel Gabrielyan, Auburn University*

#### **Employment, Production, & Networking Effects of the Paycheck Protection Program**

*Aaron J. Staples, Michigan State University*

### **The Role of USDA Agencies in Addressing Social Equity Issues**

*Catholic University (M1)*

#### **Track Session - Committee on Women in Agricultural Economics and Committee on the Opportunities & Status of Blacks in Agricultural Economics**

Social equity has been at the forefront over the last few years. As a result, many organizations are finding ways to address this issue. For example, the U.S. Department of Agriculture's (USDA) Economic Research Service and AAEA are partnering to foster greater diversity in the field of agricultural economics by increasing opportunities for individuals from underserved communities to contribute to future research and policy. Other organizations are also taking the initiative to promote equity. This session brings together leadership from four USDA agencies to discuss how their agencies are promoting social equity and to describe available opportunities for ethnic minorities and women. This session will allow members to engage in social equity discussions with agencies that play a key role in producing agricultural economic research and informing agricultural policy.

Organizer: Andrew Muhammad, University of Tennessee

Moderator: Andrew Muhammad, University of Tennessee

#### **Panelist: Dr. Spiro Stefanou**

*Spiro E. Stefanou, USDA-Economic Research Service*

#### **Panelist: Daniel Whitley**

*Daniel B. Whitley, USDA-Foreign Agricultural Service*

#### **Panelist: Hubert Hamer**

*Hubert Hamer Jr., USDA-National Agricultural Statistics Service*

#### **Panelist: Dr. Dionne Toombs**

*Dionne Toombs, USDA-National Institute for Food and Agriculture*



## **Concurrent Sessions ★ Tuesday, 4:45 PM - 6:15 PM**

### **Using Simulation Models in Farm Decision Making**

*Gallaudet University (M1)*

#### **Track Session-Extension Section**

Risk and uncertainty have been ubiquitous in the agricultural sector since humans transitioned from hunter gatherers to farmers. Consequently, farm managers and decision makers have to constantly manage risk while maintaining the profitability of their operations. The last decade, uncertainty in agriculture has increased due to climate change, supply chain bottlenecks, and disruptions to global trade. Thus, evaluation of risk management strategies and selection of best practices becomes more difficult. In this session, presenters will discuss applied research and extension projects that use simulation methods to enhance risk management strategies and improve producer decision making. Presentations will pay particular attention to application of methodology in “real-life” scenarios and insights gained from the specific project that can be applied more broadly.

Organizers: Anastasia W. Thayer, Clemson University; Michael Vassalos, Clemson University

#### **Simulation To Improve On-Farm Capital Investment Decisions**

*Anastasia W. Thayer, Clemson University; Adam Kantrowitz, Clemson University; Matthew Fischer, Clemson University*

#### **An Economic Impact and Investment Analysis of Armillaria Root Rot and Using the Root Collar Excavation Method in the Peach Industry**

*Gracie Herrin, Clemson University; Michael Vassalos, Clemson University*

#### **Estimating Spatial Agricultural Networks Through Simulation**

*Tanner McCarty, Utah State University; Jeffrey S. Young, Murray State University*

#### **Simulation in Policy Analysis - Fed Cattle Negotiated Trade Thresholds**

*Justin R. Benavidez, Texas A&M University; Bart L. Fischer, Texas A&M University*

#### **Evaluating the Profitability and Risk of Precision Agriculture Technologies**

*Jordan Shockley, University of Kentucky*

### **Food Assistance Research with Administrative Records**

*George Washington University (M1)*

#### **Track Session-Health Economics Section and Food Safety & Nutrition Section**

This session highlights what can be learned about food assistance programs and health in the US by accessing administrative records. The first paper in the session investigates the relationship between WIC benefit redemption rates and food costs during the COVID-19 pandemic – particularly, this study looks at how food price and the pandemic worked in opposite directions for redemption. Another looks at the relationship between SNAP and food insecurity when administrative records are in use: this study quantifies the value of admin data by doing a bounding analysis of the effect of SNAP on food insecurity. A third looks at a SNAP dynamics over a 17 year span of admin records in one state. A fourth uses Medicaid and SNAP records to look at how the SNAP cycle affects healthcare utilization related to diet related diseases.

Moderator: Christian A. Gregory, USDA-Economic Research Service

#### **Were Higher Food Costs Associated With Greater Redemption of WIC Food Benefits During the COVID-19 Pandemic?**

*Leslie Hodges, USDA-Economic Research Service; Qi Zhang, Old Dominion University; Junzhou Zhang, Montclair State University; Kayoung Park, Old Dominion University; Chuanyi Tang, Old Dominion University; Joanne Guthrie, USDA-Economic Research Service*

#### **SNAP and Food Insecurity: What do We Learn from Administrative Data?**

*Christian A. Gregory, USDA-Economic Research Service; Kegan O'Connor, USDA-Economic Research Service; Alisha Coleman-Jensen, USDA-Economic Research Service*

#### **SNAP Participation Dynamics in A Long-Term Administrative Data Panel**

*Laura J. Tiehen, USDA-Economic Research Service; Kegan O'Connor, USDA-Economic Research Service; Christian A. Gregory, USDA-Economic Research Service; Mark A. Prell, USDA-Economic Research Service; Michele L. Ver Ploeg, George Washington University*

#### **Understanding SNAP Cycle Effects on the Management of Diet-Related Health Conditions**

*Alicia Atwood, Vassar College; Victoria Udalova, U.S. Census Bureau*

# SAVE THE DATE

## 2024 AAEA Annual Meeting

July 28-30, 2024 🌟 New Orleans, LA



## 2024 AAEA Annual Meeting

New Orleans, LA 🌟 July 28-30, 2024  
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