

PROFESSIONAL PROFILE

I am an environmental social scientist committed to working with communities towards equitable and sustainable solutions. My work addresses the social and cultural dimensions of Pacific Northwest marine ecosystems with a current focus on community resilience to ocean change, food systems, and weaving local and Indigenous knowledge into resource management. I lead the Washington Sea Grant Outreach Program and its 22 technical staff experts in coastal topics.

APPOINTMENTS

- Oct 2023 – present **Assistant Director for Outreach.** Washington Sea Grant Program, College of the Environment, University of Washington
- June 2022 – Dec 2022 **Social Scientist and Integrated Knowledge and Education Team Lead.** Washington Sea Grant Program, College of the Environment, University of Washington
- Oct 2013 – June 2022 **Social Scientist.** Washington Sea Grant Program, College of the Environment, University of Washington
- Oct 2013 – Sept 2019 **Social Science Liaison.** Washington Sea Grant Liaison/Research Associate at NOAA Northwest Fisheries Science Center; Seattle WA
- Sept 2012 – Sept 2013 **Research Social Scientist.** Contract with NOAA Northwest Fisheries Science Center; Seattle WA
- Mar 2010 – Mar 2012 **Principal Investigator, Senior Research Associate.** Institute for Culture and Ecology; Seattle, WA

EDUCATION

Postdoc Fellow 2009-10	Institute for Culture and Ecology	Human Ecology Mapping
Ph.D., 2009	University of Washington	Environmental Anthropology
M.A., 2004	University of Washington	Anthropology
B.A., 1995	Whitworth University	Sociology; Spanish, Minor: Peace Studies

PEER-REVIEW PUBLICATIONS

- Drakopoulos, L and **Poe**, M.R. 2023. Facing Change: Individual and Institutional Adaptation Pathways in West Coast Fishing Communities, *Marine Policy*.
- Donkersloot, R; Black, J; Carothers, C; Ringer, D, ... **Poe**, M.R. ... 2020. Equity vs. Equality and Well-being in Alaska's Salmon Fisheries, *Ecology and Society*
- Okamoto, D.K., **Poe**, M.R., Francis, TB, André E. Punt , Phillip S. Levin, Andrew O. Shelton, et al. (2019). Attending to spatial social-ecological sensitivities to improve ecological trade-off assessments, *Fish and Fisheries*.
- Hodgson, E.E., Essington, T.E., Samhouri, J.F., Allison, E.H., Bennett, N.J., Bostrom, A., Cullen, A.C., Kasperski, S., Levin, P.S. and **Poe**, M.R., (2019). Integrated risk assessment for the blue economy. *Frontiers in Marine Science*, 6, p.609.
- Armitage, D.R., Okamoto, D.K., Silver, J.J., Francis, T.B., Levin, P.S., Punt, A.E., ... **Poe**, M.R., et al., (2019). Integrating Governance and Quantitative Evaluation of Resource Management Strategies to Improve Social and Ecological Outcomes. *BioScience*.
- Leong, K.M; Wongbusarakum, S; Ingram, R; Mawyer, A; **Poe**, M.R. (2019). Improving Representation of Human Well-Being and Cultural Importance in the West Hawai'i Integrated Ecosystem Assessment, *Frontiers in Marine Science* 6: 231
- Punt, A. E. P; D.K. Okamoto, .. **Poe**, M.R., ... et al. (2018). "When are estimates of spawning stock biomass for small pelagic fishes improved by taking spatial structure into account?" *Fisheries Research*.
- MacCall, Alec; Tessa B. Francis, André E. Punt , Derek R. Armitage, ... **Poe**, M.R.... et al. (2018) "A heuristic model of learned migration behavior exhibits distinctive spatial and reproductive dynamics", *ICES Journal of Marine Science*.

- Charnley, S; McLain, R; **Poe**, M.R. (2018) Natural Resource Access Rights and Wrongs: Nontimber Forest Products Gathering in Urban Environments. *Society and Natural Resources*
- McLain, **Poe**, Urgenson, Blahna, Buttolph, (2017) Urban Non-Timber Forest Products Stewardship Practices Among Foragers in Seattle, Washington (USA), *Urban Forestry & Urban Greening*, Volume 28: 36-42
- Breslow, S. ... **Poe**, MR, et al., (2017). Evaluating Indicators of Human Wellbeing for Ecosystem-Based Management" in *Ecosystem Health and Sustainability*, Vol 3:12
- Charnley, Susan; Carothers, C; Satterfield, T; Levine, A; **Poe**, M; Norman, K; Donatuto, J; Mascia, M; Breslow, S; Levin, P; Basurto, X; Hicks, C; Garcia-Quijano, C; St. Martin, K; Agrawal, A; Dolsak, N. (2017) Best Available *Social Science* for Natural Resource Decision-making. *Environmental Science & Policy*
- Poe**, M; Donatuto, J.; Satterfield, T. (2016) "Sense of Place:" Human Well-being Considerations for Ecological Restoration in Puget Sound, *Coastal Management*, 44(5)1-18.
- Hicks, C., Levine, A., Agrawal, A., Basurto, X., Breslow, S., Carothers, C., Charnley, S., Coulthard, S., Dolsak, N., Donatuto, J., Garcia Quijano, C., Mascia, M.B., Norman, K., **Poe**, M., Satterfield, T., St. Martin, K., Levin, P.S. (2016) Engage Key Social Concepts for Sustainability. *Science* April 1, 2016, Vol 352: 6281.
- Levin, P; Breslow, S; Harvey, C; Norman, K; **Poe**, M; Williams, G; Plummer, M (2016) Conceptualization of the Social-Ecological Systems of the California Current: an examination of interdisciplinary science supporting ecosystem-based management. *Coastal Management*, 44(5)1-12.
- Breslow, S. ... **Poe**, MR, et al., (2016). Conceptualizing and Operationalizing Human Wellbeing for Ecosystem-Based Management. *Environmental Science & Policy*
- Harvey, C.J., Reum, J.C.P, **Poe**, M.R., Williams, G.D, and Kim, S.J. (2016). Using conceptual models and qualitative network models to advance integrative assessments of marine ecosystems, *Coastal Management*, 44(5)1-18.
- Poe**, M; Levin, P; Tolimieri, N; Norman, K (2015) Subsistence Fishing in a 21st Century Capitalist Society: from commodity to gift. *Ecological Economics* 116:241-250.
- Wassilie, K; **Poe**, M. (2015) Pacific Walrus and Coastal Alaska Native Subsistence Hunting: Considering Vulnerabilities from Ocean Acidification, *Earthzine*
- Charnley, S; **Poe**, M; Spies, T; Ager, A; Platt, E; Olsen, K. (2015) "A Burning Problem: Social Dynamics of Disaster Risk Reduction through Wildfire Mitigation in the Western United States," *Human Organization* 74:329-340.
- Poe**, M. R., Norman, K. C., & Levin, P. S. (2014). Cultural Dimensions of Socioecological Systems: Key Connections and Guiding Principles for Conservation in Coastal Environments. *Conservation Letters*, 7(3), 166-175.
- Poe**, M. R., LeCompte, J., McLain, R., & Hurley, P. (2014). Urban Foraging and the Relational Ecologies of Belonging. *Social & Cultural Geography*, 15(8): 901-919.
- McLain, R. J., Hurley, P. T., Emery, M. R., & **Poe**, M. R. (2014). Gathering "wild" food in the city: rethinking the role of foraging in urban ecosystem planning and management. *Local Environment*, 19(2), 220-240.
- Poe**, M; McLain, R; Emery, M; Hurley, P. (2013). "Urban Forest Justice and Rights to Wild Foods, Medicines and Materials in the City," *Human Ecology* Vol 41(3) 409-422.
- McLain, R, **Poe**, M, Biedenweg, K, Cerveny, L, Besser, D and Blahna, D. 2013. "Making sense of human ecology mapping: Approaches to integrating sociocultural data into GIS-based environmental planning." *Human Ecology*. Volume 41 (5): 651-665
- McLain, R; **Poe**, M; Hurley, P; LeCompte-Mastenbrook, J; Emery, M. (2012). "Producing Edible Landscapes in Seattle" *Urban Forests Urban Greening*, Volume 11, Issue 2.
- Charnley, S & **Poe**, M.R. (2007). "Community Forestry in Theory and Practice: Where are We Now?" *Annual Review of Anthropology*, Volume 36: 301-336.

EDITED VOLUMES AND BOOK CHAPTERS

- Hurley, Patrick , Marla R. Emery, Rebecca McLain, Melissa **Poe**, Kristin McGillis, Joana Chan, and Maite Lascurain Rangel. (Anticipated 2019). "Hidden Harvests: Profiles in Urban Foraging" in *Productive Urban Landscapes: Diversity in Approaches*, edited by Nicolas Koff; Routledge
- Levin, P.S. and **Poe** M.R. Editors. (2017). *Conservation in the Anthropocene Ocean: Interdisciplinary Science in Support of Nature and People*. Academic Press, San Diego, CA.
- Poe**, M.R. and Levin, P.S. (2017) "Looking Forward: Interconnectedness in the Anthropocene Ocean" in *Conservation in the Anthropocene*, eds. Levin and Poe, Academic Press, San Diego, CA, pp: 481-490

- Poe, M. R., LeCompte, J., McLain, R., & Hurley, P. (2016).** "Urban Foraging and the Relational Ecologies of Belonging." *Vegetal Politics: Belonging, Practices and Places*, eds. Lesley Head, Jennifer Atchison, Catherine Phillips, Kathleen Buckingham. Routledge, New York, NY.
- Hurley, P; Emery, M; McLain, R; **Poe, M;** Grabbatin, B; Goetcheus, C. (2014) "Whose Urban Forest? The Political Ecology of Foraging Urban Nontimber Forest Products" in Isenhour, Cindy, Gary McDonogh, and Melissa Checker, eds. *Sustainability in the Global City: Myth and Practice*. Cambridge University Press, 2014: 187-212.
- Poe, Melissa R. (2009).** Wild Mushrooms, Forest Governance, and Conflict in the Northern Sierra of Oaxaca. *PhD Thesis*. University of Washington, Seattle.

TECHNICAL PUBLICATIONS & REPORTS

- Pacific Sea Garden Collective. (2022). *Sea Gardens Across the Pacific: Reawakening Ancestral Mariculture Innovations. Version 1*. Washington Sea Grant at the University of Washington.
<https://doi.org/10.6069/ZJB9-CG30>.
- Watkinson-Schutten, M, and **Poe, M.R.** 2022. Understanding the Resilience and Socioeconomic Challenges of Olympic Coast Communities to Ocean Changes. Washington Sea Grant Technical Report, Seattle, WA. Puget Sound Partnership, Action Agenda 2022-2026, [Desired Recovery Outcomes](#). Co-author of section 5, *Ensure Human Wellbeing*, June 2022
- NOAA Office of Education, 2021. The 7 R's of Integrating Tribal and Indigenous Partnerships into Aquaculture Literacy. Maggie Allen, Alagamiñ (Nicole) Norris, Blair Paul, Hokulani (Hoku) Ka'aekuahiwi Pousima, Kevin Donner, Melissa **Poe**, Brianna Shaughnessy, Kayla do Couto. Web story. Accessed at URL: <https://www.noaa.gov/office-education/stories/7-r-s-of-integrating-tribal-and-indigenous-partnerships-into-aquaculture-literacy>, 06-01-2022.
- Jones, R., M. **Poe**, and T. Brown. 2021. Haida Marine Traditional Knowledge Summary: *iinang* – Herring. In: Haida Nation and Canada. *Draft Haida Gwaii Pacific Herring Rebuilding Plan, June 30, 2021, Appdx C*.
- M Watkinson, WR Callender, K Curtis, K Litle, M **Poe** – 2020. Diversity, Equity and Inclusion: 10-year Roadmap, Washington Sea Grant. NOAA Library Repository.
- Breslow, S.J., Kintner, L., Dreyer, S., Cole, H., Anderson, L., Biedenweg, K., Bennett, N., Donatuto, J., Hanson, E., Norman, E. and **Poe, M.**, (2019). Social Science for the Salish Sea. Report to
- Harvey, C. J., ... **Poe**, et al (2018). Ecosystem Status Report of the California Current for 2018: A Summary of Ecosystem Indicators Compiled by the California Current Integrated Ecosystem Assessment Team.
- Harvey, Cj; Garfield,... **Poe**, et al (2017) Ecosystem status report of the California Current for 2017: a summary of ecosystem indicators compiled by the California Current Integrated Ecosystem Assessment Team; NOAA technical memorandum NMFS-NWFSC ; 139
- Poe, Melissa;** Donatuto, Jamie; Wilbur, Matika; Gregory, Robin. (2016). *Ocean Changes and Squaxin Island Tribal Community Health and Wellbeing*. A report in partial fulfillment of a National Library of Medicine #1R24LM011809-01 for the project, Developing Indigenous Health Indicators to Reflect Community Health Priorities.
- Poe, M.R.** (2016, 2014). Section author: "Personal Use: Subsistence and Informal Economic Practices Among Commercial Fisheries" in the *Annual State of the California Current*, A report of the NMFS Northwest and Southwest Fisheries Science Centers Integrated Ecosystem Assessment.
- Martone, R; Mach M; Walecka, H; Kappel, C; Scarborough, C; Halpern, B; Samhuri, J; Stier, A; **Poe, M;** Levin, P. (2016). *Gwaii Haanas Marine Ecological Indicators: A synthesis of marine ecological indicators assessed for their suitability for monitoring species, habitats, food webs, and drivers in Gwaii Haanas marine ecosystems*. Ocean Tipping Points, Center for Ocean Solutions, National Center for Ecological Analysis and Synthesis and the National Oceanographic and Atmospheric Administration. 90pp.
- Poe, M.R.,** Watkinson, M; Trosin, B; Decker, K. (2015) *Social Indicators for Washington Coast Integrated Ecosystem Assessment*. Report to Washington Department of Natural Resources in fulfillment of Interagency Agreement IAA 14-204. *Washington Sea Grant WSG-TR 15-07*.
- Donatuto, J and **Poe, M.** (2015). Evaluating Sense of Place as a Domain of Human Well-Being for Puget Sound Restoration. Technical Report to Puget Sound Institute, Tacoma, WA
- Breslow, S; Holland, D; Levin, P; Norman, K; **Poe, M;** et al. (2014) "Human Dimensions of the CCIEA." in: Harvey, C.J., N. Garfield, E.L. Hazen and G.D. Williams (eds.). *The California Current Integrated Ecosystem Assessment: Phase III Report*. Available from <http://www.noaa.gov/iea/CCIEA-Report/>

Dillingham C, Poe M, et.al. (2008). "Northwest Forest Plan-The First Ten Years: Socioeconomic Monitoring of the Okanogan-Wenatchee National Forest and Five Local Communities," *PNW Research Station Gen. Tech. Report, PNW-GTR-761*.

COLLABORATIVE RESEARCH ACTIVITIES

- **Cross-Pacific Indigenous Aquaculture Collaborative Hub.** (Project Lead), a collaboration with Sea Grant programs and Native communities in Alaska and Hawaii on sustainable Indigenous Aquaculture to enhance seafood production in the broader Pacific region, strengthen community access to traditional and customary foods, and deepen collaborative engagements, 2019-present
- **Northwest Climate Resilience Collaborative—Coastal Tribal Resilience Portfolio** (collaborating scientist) with UW Climate Impacts Group (Meade Krosby) and Affiliated Tribes of Northwest Indians, NOAA CAP/RISA Program, 2021-2026
- **Olympic Coast as a Sentinel: An Integrated Social-Ecological Regional Vulnerability Assessment to Ocean Acidification** (co-Lead Principal Investigator with Jan Newton); an applied science collaboration with Quinault Indian Nation, the Hoh, Quileute and Makah Tribes, Olympic Coast National Marine Sanctuary, NOAA PMEL, and Washington Sea Grant; 2017-2022
- **Indigenizing Science: Applying the Thirteen Moons Framework to an Indigenous Research Paradigm to Understand Indigenous Aquaculture Practices**, collaborator with Northwest Indian College lead (Aissa Yazzie and Emma Norman) applied research, 2022-2024
- **Reviving the Past to Protect the Future: developing a social-ecological clam garden site selection model**, collaborating scientist and technical advisory group with PIs: Courtney Greiner, Jamie Donatuto and Julie Barber, Swinomish Indian Tribal Community, 2018-2024
- **UN Decade of Ocean Science for Sustainable Development Regional Collaborative Center for the Northeast Pacific**, Advisory Committee, 2022-2024.
- **Community Resilience to Climate Vulnerability in California Current Fisheries** (ethnography project lead), part of National Science Foundation funded project, "Coupled Natural and Human Systems Research: The Dynamics of Adaptation to Climate-Driven Variability in California Current Fisheries and Fishing Communities; 2016-2022
- **Ocean Tipping Points, Cultural-Ecological dimensions of Pacific Herring and other Fisheries in Haida Gwaii**; co-principal investigator with PIs Carrie Kappel and Phil Levin, National Center for Ecological Analysis and Assessment in partnership with Gwaii Haanas Parks Canada and the Council of the Haida Nation, September 2014-present
- **Puget Sound Partnership Social Science Advisory Committee to the Science Panel**; 2012-2023.
- **NOAA Integrated Ecosystem Assessment of the California Current**; collaborating scientist, and co-chair of the national Human Dimensions Working Group, Northwest Fisheries Sciences Center, Seattle, September 2012-2019.
- **Ocean Modeling Forum, Pacific Herring**; collaborating scientist, 2016-2020.
- **State of Alaska Salmon and People Well-being Working Group, National Center for Ecological Analysis and Assessment**, Advisor, 2016-2021.
- **Social Wellbeing Indicators for Marine Management**; collaborating scientist, NOAA-UW-Washington Sea Grant social science collaboration and expert working group, Seattle, 2012-September 2017.
- **Ocean Change and Indigenous Health and Wellbeing**; co-principal investigator, collaboration with Squaxin Island Tribe, and Co-PI Jamie Donatuto, March 2015-2016.
- **Evaluating Community Wellbeing as a Place-Based Cultural Ecosystem Service of the Puget Sound Region of the Salish Sea**, co-principal investigator with Jamie Donatuto, Swinomish Indian Tribal Community and Squaxin Island Tribe, July 2013-December 2014.
- **Green Cities Research Alliance**; collaborating scientist, interdisciplinary effort on urban sustainability (www.fs.fed.us/pnw/research/gcra/), Seattle, 2009-2017
- **Cultural Values Mapping on the Olympic Peninsula**, with Lee Cerveney, USDA Forest Service and Rebecca McLain, Institute for Culture and Ecology, 2009-2010
- **Community and Institutional Capacity for Wildland Fire Restoration**, collaboration with Susan Charnley (lead), USDA Forest Service, 2006-2009
- **Socioeconomic Monitoring of the Northwest Forest Plan**, collaboration with Susan Charnley (lead), USDA Forest Service, 2004-2006

PROFESSIONAL AND COMMUNITY SERVICE

- **Washington Sea Grant Diversity, Equity, Inclusion, Justice and Access collectives**, Univ of Washington, 2018-present
- **Tribal Relations Collective lead, Washington Sea Grant**, University of Washington, 2020-2022
- **Science for Nature and People (SNAPP)**, Science Advisor, a partnership of The Nature Conservancy, Wildlife Conservation Society, and National Center for Ecological Analysis & Synthesis, 2020-2022
- **Diversity Committee**, College of the Environment, Univ of Washington
- **Indigenous and Local Knowledge Visioning Network**, Sea Grant 10 year strategic vision
- **West Hawaii Integrated Ecosystem Assessment**, Advisor, 2017-2022
- **Northwest Tribal Climate Change Network**, participant, 2013-present
- **Doris Duke Conservation Scholars Program**, UW Faculty mentor 2017
- **Olympic Coast Exploration**, E/V Nautilus, Ocean Exploration Trust, Scientist on Board, 2017
- **Board of Directors**, City Fruit, stewardship & food security organization, Seattle, 2014 to 2017
- **Traditional Foods Wellness Network**, Seattle Children's Hospital/Ronald McDonald House, assist coordination of traditional foods donations for Indigenous patients/families, 2011-2015
- **Puget Sound Regional Food Policy Council Equity Subcommittee**, 2011 to 2013
- **Indigenous Ecological Knowledge**, Workshop Co-facilitator, Seattle Race Conference, 2012
- **Traditional Plants & Foods program**, Collaborator, Northwest Indian College, 2009-2012
- **Traditional Food Summit Planning Committee**, a collaborative Native-led summit to discuss cultural, political, and ecological dimensions of aboriginal food practices, Seattle, March 2011
- **Diversity Committee member**, Univ of Washington, Dept of Anthropology, Seattle, 2006-08
- **Teaching Effectiveness Committee**, UW Dept. of Anthropology, Seattle, 2002-2004
- **Environment and Society Interdisciplinary Forum** Coordinator, UW, Seattle, 2001-02
- **Affirmative Action Committee and Sexual Harassment Policy Task Force**, Whitworth 1990-1992

AWARDS AND HONORS

- **Outstanding Achievement nominee** for service on Washington Sea Grant Diversity Equity and Inclusion efforts, College of the Environment, University of Washington
- **Postdoctoral Fellow**, Institute for Culture and Ecology, *Human Ecology and Cultural Values Participatory Mapping*; Seattle Mar 2009 – Mar 2010
- **Invited Scholar**, National Science Foundation course on Research Methods in Ethnoecology, Duke University Marine Lab, Beaufort, NC, 2010
- **Graduate Research Fellow**, Doctoral Research, *Community and Indigenous Forestry in Oaxaca Mexico*; Dept of Anthropology, U of Washington; Seattle, WA Sept 2001– Mar 2009
- **Merit Award for Superior Performance**, USDA Forest Service, Pacific Northwest Research Sta
- **Civil Rights Competitive Award**, USDA Forest Service, Pacific Northwest Research Station
- **Graduate Opportunity Minority Affairs Program Fellowship**, University of Washington
- **Distinguished Dissertation nominee**, University of Washington
- **Merit Scholarship**, Baldwin Scholarship, University of Washington
- **Chester Fritz Graduate Fellowship**, University of Washington
- **Sociology-in-Action Award**, Whitworth University

POPULAR PRESS COVERAGE & PUBLIC SCHOLARSHIP

Science Magazine, The Guardian, Mongabay, National Geographic, Scientific American, Canadian Geographic, Science Daily, Frontiers in Ecology and Environment, Nautilus Oceans, Canadian Broadcast Channel, Crosscut, Native America Calling, National Public Radio, Public Radio International, KUOW, Burke Museum "Food Talks", Earthzine, Huffington Post, University of Washington Today, NOAA Feature Stories, NOAA Sanctuary, Encyclopedia of Puget Sound, Taylor and Francis Animated Abstracts, Sea Star WA Sea Grant Newsletter

PROFESSIONAL SOCIETIES AND MEMBERSHIPS

Society for Applied Anthropology
Coastal and Estuarine Research Federation
Society for Conservation Biology
Association of American Geographers
American Fisheries Society