

LI, ANG

Mathematics Department, University of California, Santa Cruz

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EDUCATION AND EMPLOYMENT

Visiting Assistant Professor in Mathematics

July 2022 - Present

Research interest: Homotopy theory

Advisor: Beren Sanders, webpage: <https://people.ucsc.edu/~beren>

Doctoral Program of Mathematics at University of Kentucky

August 2016 - May 2022

Research interest: Homotopy theory

Advisor: Bert Guillou, webpage: <http://www.ms.uky.edu/~guillou>

Doctoral Program of Mathematics at University of Cincinnati

August 2014 - May 2016

I transferred program in order to better find a faculty advisor matching my research interest.

Bachelor Program of Mathematics and Applied Mathematics at Central South University

September 2010 - June 2014

One of both the 211 and 985 project universities, P.R.CHINA

Advisor: Yong Jiao, webpage: http://faculty.csu.edu.cn/jiaoyong/zh_CN/index.htm

PUBLICATIONS AND PREPRINTS

My current projects are in equivariant and motivic homotopy theory. In particular, I am interested in the C_2 -equivariant, complex and real motivic stable homotopy category and Steenrod algebras. Please visit my webpage <https://angli266169.github.io> for details.

The stable Picard group of finite Adams Hopf algebroids with an application to the \mathbb{R} -motivic Steenrod subalgebra $\mathcal{A}(1)^{\mathbb{R}}$

Joint work with Xu Gao

Available on the ArXiv: <https://arxiv.org/abs/2306.12527>

On realizations of the subalgebra $\mathcal{A}^{\mathbb{R}}(1)$ of the \mathbb{R} -motivic Steenrod Algebra

Joint work with Prasit Bhattacharya and Bertrand Guillou

Transactions of the American Mathematical Society, Series B 9.23 (2022): 700-732.

An \mathbb{R} -motivic v_1 -self-map of periodicity 1

Joint work with Prasit Bhattacharya and Bertrand Guillou

Homology, Homotopy & Applications 24.1 (2022).

The v_1 -periodic region in the cohomology of the \mathbb{C} -motivic Steenrod algebra

New York J. Math 26 (2020): 1355-1374.

ACADEMIC ACHIEVEMENTS

Summer Research Assistantship

University of Kentucky, 2021

This award is made possible by external grants held by Dr. Bert Guillou

Summer Research Fellowship

University of Kentucky, 2020

This award provides summer research support for doctoral students

Mathematics Department Fellowship

University of Kentucky, 2020

This award recognizes outstanding research by a doctoral student

Summer Research Assistantship

University of Kentucky, 2018 and 2019

This award is made possible by external grants held by Dr. Bert Guillou

Maita Levine Award for Outstanding Beginning Doctoral Students

University of Cincinnati, 2015

ACTIVITIES

Organizer of the Algebra and Number Theory Seminar at UCSC

Fall 2023 - Spring 2024

<https://www.math.ucsc.edu/seminars/algebra/index.html>

Co-organizer of the eCHT Kan Seminar

Fall 2020

<https://s.wayne.edu/eht/eht-reading-seminars/eht-kan-seminar-fall-2020>

PRESENTATIONS

AMS 2023 Fall Central Sectional Meeting

October 7-8 2023. At Creighton University

http://www.ams.org/meetings/sectional/2307_program.html

eCHT Research Seminar

October 20 2022.

<https://s.wayne.edu/eht/eht-research-seminar>

Summer School on Chromatic Homotopy Theory and Higher (Infinity-Categorical) Algebra

August 15-26, 2022.

<https://iwoat.github.io/2022>

UC San Diego Topology Seminar

October 5, 2021.

South Central Topology Conference

September 25-26, 2021. At Texas A&M Math Department

<https://www.hiroleetanaka.com/sctc>

Summer School on Equivariant Homotopy Theory

July 19-30, 2021.

<https://iwoat.github.io/2021>

University of Virginia Topology Seminar

April 29, 2021.

UCLA Algebraic Topology Seminar

November 15, 2020.

Chicago-Northwestern Topology Seminar

October 27, 2020.

Topology Seminar at Johns Hopkins University

October 26, 2020.

Graduates Reminisce Online On Topology (GROOT) Summer Seminar

July 15, 2020.

<https://sites.google.com/view/sarahpetersen/groot-summer-seminar>

Summer School on Equivariant Homotopy Theory

August 13-17, 2019. At Fudan University, Shanghai, China

<https://iwoat.github.io/2019>

Graduate Student Topology and Geometry Conference

March 30-31, 2019. At University of Illinois Urbana-Champaign

<https://hquan4.pages.math.illinois.edu/GSTGC2019/index.html>

TEACHING

Here are some courses I have taught as an instructor. Please also see my webpage <https://angli266169.github.io> for details.

At University of California, Santa Cruz:

- MATH124 Intro To Topology
- MATH287 Topology Topics (Graduate)
- MATH116 Combinatorics
- MATH129 Algebraic Geometry
- MATH239 Homological Algebra (Graduate)
- MATH23B Vector Calculus

At University of Kentucky:

- MA201 Math For Elementary Teachers
- MA109 College Algebra
- MA322 Matrix Algebra