

LI, ANG

Department of Mathematics, University of Kentucky

Office: POT 722 Email: ang.li1414201@uky.edu Webpage: <http://ms.uky.edu/~ali266/>

EDUCATION

DOCTORAL PROGRAM OF MATHEMATICS AT UNIVERSITY OF KENTUCKY

August 2016 - Present

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

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

PUBLICATIONS AND PREPRINTS

My current projects are in equivariant and motivic homotopy theory. I am interested in the ∞ -categorical language and its connection to the equivariant and motivic homotopy theory. Please see my webpage <http://ms.uky.edu/~ali266/> for details.

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

Submitted. Available on the ArXiv: <https://arxiv.org/abs/2106.10769>

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

Joint work with Prasit Bhattacharya and Bertrand Guillou

To appear in Homology, Homotopy, and Applications. Available on the ArXiv: <https://arxiv.org/abs/2008.05547>

The v_1 -Periodic Region in the cohomology of the \mathbb{C} -motivic Steenrod algebra
New York J. Math. 26 (2020) 13551374. Available on the ArXiv: <https://arxiv.org/abs/1912.03111>

ACTIVITIES

Co-organizer of the eCHT Kan Seminar

Fall 2020

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

PRESENTATIONS

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/school>

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/school>

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 in the University of Kentucky. Please see my webpage <http://ms.uky.edu/~ali266/> for details.

As instructor:

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

As recitation leader:

- MA113 Calculus I
- MA114 Calculus II
- MA123 Elementary Calculus for Business
- MA213 Calculus III