

Curriculum Vitae

Chung-Ru Lee

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Education

Duke University

Ph.D. Mathematics, *August 2016-Present (Expected April 2022)*

Advisor: Jayce R. Getz

Dissertation: Unitary Relative Endoscopy

National Taiwan University

M.S. Mathematics, *September 2013-June 2016*

Thesis: On Coleman Integration and p -adic L -functions

National Taiwan University

B.S. Mathematics, *September 2008-June 2012*

◦ Academic Excellence Award, *2011*

Research

Interests

Number theory: representation theory and automorphic forms.

Publications

- (In preparation) On Stabilization of Relative Orbital Integrals on Unitary Groups
- (In preparation) Endoscopic Relative Orbital Integrals on GL_3
- (Joint work with R. Dalal and P. Gu in preparation) An Estimation for Orbital Integrals
- Endoscopic Relative Orbital Integrals on U_3 , *arXiv:2110.11890*, 2021.
- (Joint work with T. Can, G. Zhou, and B. Nativi) Rational Points in Regular Orbits attached to Infinitesimal Symmetric Spaces, *arXiv:1711.02139*, 2017.

Invited

Talks

A Lower Rank Twisted Relative Fundamental Lemma

AMS Sectional Meeting, the University of Hawaii at Manoa. *March 22-24, 2019.*

Endoscopic Relative Orbital Integrals on U_3

Peking Online International Number Theory Seminar, Peking University. *January 5, 2022.*

Endoscopic Relative Orbital Integrals on U_3

Number Theory Seminar, University of Copenhagen. *January 7, 2022.*

Contributed

Talks

Rational Points in Regular Orbits attached to Infinitesimal Symmetric Spaces

The Triangle Area Graduate Mathematics Conference, NCSU. *April 6, 2019.*

Introduction to Trace Formula

Duke Graduate-Faculty Seminar. *February 11, 2019.*

Other

Conference

Activities

Workshop on Representation Theory and Analysis on Locally Symmetric Spaces

Institute of Advanced Study. *March 2018.*

The 2017 Paul J. Sally Jr. Midwest Representation Theory Conference

Purdue University. *October 2017.*

Automorphic Forms and Related Topics

Vietnam IASM (VIASM), Ha Long. *August 2017.*

Awards

Summer Research Fellowship for Third-Year Ph.D. Students and Beyond
Duke University. *Summer 2018, 2020, 2021.*

Teaching Experience

Instructor

Duke University

Math 202D (Multivariable Calculus for Economics) *Fall 2021*
Math 112L (Laboratory Calculus) *Spring 2021*
Math 202D (Multivariable Calculus for Economics) *Fall 2019*
Math 112L (Laboratory Calculus) *Spring 2019*

Teaching Assistant

Duke University

Math 111L (Laboratory Calculus) *Fall 2018*
Math 122L (Second-Semester Calculus) *Fall 2016*

National Taiwan University

Complex Analysis *Fall 2015*
Partial Differential Equation *Spring 2015*
Ordinary Differential Equation *Fall 2014*
Honors Advanced Calculus I *Fall 2013*
Honors Advanced Calculus II *Spring 2014*

Mentorship

DOMath Program 2019, Duke University

Topic: Mysterious Unramified Zeta Functions *Summer 2019*

Lucas Fagan (Presently a Ph.D. student at UCSB)
Craig Fiedorek
Diego Sosa-Fundora
Tony Sun
Henry Zhang

DOMath Program 2017, Duke University

Topic: Rational Points in Orbits of Matrix Groups *Summer 2017*

Trung Can (Presently a Ph.D. student at CalTech)
Gary Zhou (Presently a Ph.D. student at UCLA)
Benjamin Nativi (Presently a Ph.D. student at UT Austin)