

Joey Yu LUO

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EDUCATION

University of Wisconsin - Madison Ph.D. in Mathematics, Advisor: Brian Lawrence, Michael Rapoport	Madison, WI In progress
University of Wisconsin - Madison M.A. in Mathematics	Madison, WI May 2021
Zhejiang University B.S. in Mathematics	Hangzhou, ZJ May 2020

PUBLICATIONS

1. Yu LUO, “On the moduli description of the unitary Local model of signature $(n - 1, 1)$ at a ramified place”, *Coming Soon*

SEMINAR TALKS

- On the Moduli Description of a Class of Unitary Shimura Varieties
Zhejiang University, invited by Fei Yu May 2023
- On the Moduli Description of a Class of Unitary Shimura Varieties
Michigan State University, invited by George Pappas May 2023

HONORS AND AWARDS

- A scholarship equivalent to the Government Scholarship 2018–2019
- Government Scholarship - Zhejiang Government 2017–2018
- Government Scholarship - Zhejiang Government 2016–2017

CONFERENCE ATTENDED

- Arithmetic Algebraic Geometry: A conference on the occasion of Michael Rapoport’s 75th birthday
University of Münster, Münster, Germany October 2023
- Workshop on Geometric Analysis and Complex Geometry
Tianyuan Mathematical Center in Central China, Wuhan, China August 2023
- Mini-Workshop on Topology and Arithmetic
Southern University of Science and Technology, Shenzhen, China August 2023
- Satellite Conference in Number Theory of ICBS
Morningside Center of Mathematics, Beijing, China July 2023
- Workshop on Geometric Representation Theory and Applications
Tsinghua University, Beijing, China July 2023
- MSRI workshop: Shimura Varieties and L-functions: to Shou-Wu Zhang’s 60th birthday March 2023

Mathematical Sciences Research Institute, California, USA

- Arizona Winter School 2023: Unlikely Intersections March 2023
University of Arizona, Arizona, USA
- Joint Mathematics Meetings 2023 January 2023
Boston, Massachusetts, USA
- Johns Hopkins University - University of Maryland Algebra and Number Theory Day November 2022
University of Maryland, Maryland, USA
- MAGNTS: Midwest Arithmetic Geometry and Number Theory Series October 2022
University of Illinois Chicago, Illinois, USA
- Arithmetic and Topology over Global Fields October 2022
University of Wisconsin - Madison, Wisconsin, USA
- Boston College 2021 AGNES: Algebraic Geometry Northeastern Series Showcase October 2021
Boston College (Online), Massachusetts, USA
- CA+ 2021 October 2021
University of Minnesota Twin Cities, Minnesota, USA
- Theta Series: Representation Theory, Geometry and Arithmetic July 2021
The Fields Institute (Online), Toronto, Canada

SERVICES

- Coorganizer of GAGS - Graduate Algebraic Geometry Seminar 2022 Spring–Current
University of Wisconsin - Madison
- Mentor at Undergraduate Directed Reading Program 2022 Spring
Mentor of Baoyi WANG (Currently in Columbia University) University of Wisconsin - Madison
- Mentor of Master Program in Math Department 2021 Fall
Mentor of Ruoxi LI (Currently in UIUC Math PhD), Weiman YUAN (Currently in Vanderbilt University Bio, Engineering), Aditya Phukon.
- Organizer of Algebraic Geometry Learning Seminar 2020 Spring
University of Wisconsin - Madison
- Organizer of Commutative Algebra Learning Seminar 2019 Fall
University of Wisconsin - Madison
- Organizer of Undergraduate Algebraic Geometry Seminar 2019 Spring
Zhejiang University

READING SEMINAR TALKS

- Geometric proof of Hurwitz class number relation September 2023
Graduate Number Theory Seminar, University of Wisconsin Madison
- Hilbert-Mumford criterion February 2023
Geometry Invariant Theory Reading Seminar, University of Wisconsin Madison
- Bad reduction of modular curve and Langlands-Kottwitz method December 2022
Graduate Number Theory Seminar, University of Wisconsin Madison
- Yoneda embedding and moduli problem December 2022
Graduate Algebraic Geometry Seminar, University of Wisconsin Madison
- Serre's local open image theorem October 2022
Graduate Arithmetic Reading Seminar, University of Wisconsin Madison

- Abelian representation and representation of S_m September 2022
Graduate Arithmetic Reading Seminar, University of Wisconsin Madison
- Galois Representation, L-function and Faltings finiteness theorem September 2022
Graduate Arithmetic Reading Seminar, University of Wisconsin Madison
- Riemann-Hilbert Correspondence February 2022
Graduate Algebraic Geometry Seminar, University of Wisconsin Madison
- Stacks for Kindergarteners December 2021
Graduate Algebraic Geometry Seminar, University of Wisconsin Madison
- Construction of Quot scheme and flat family October 2021
Graduate Deformation Theory Seminar, University of Wisconsin Madison.
- Intersection Theory and Grothendieck Riemann Roch April 2021
Graduate Algebraic Curve Reading Seminar, University of Wisconsin Madison.
- The Zariski Tangent space of $\text{Wrd}(\mathbb{C})$ and $\text{Grd}(\mathbb{C})$ March 2021
Graduate Algebraic Curve Reading Seminar, University of Wisconsin Madison.

LANGUAGES

- English
- Mandarin