

Jinyue Luo
+1 (773)6902323
jinyue@uchicago.edu

Education

University of Chicago, 2020 – 2025
Ph.D Candidate, Mathematics, Advisor: Prof. Frank Calegari

University of Chicago, 2019 – 2020
Master of Mathematics

Peking University, 2015 – 2019
Bachelor of Science, School of Mathematical Sciences, Outstanding Graduates of Beijing

Research Interest

Number Theory, especially Galois representations attached to modular forms and deformation rings.

Preprints

Pseudorepresentations not arising from genuine representations. arXiv:2310.16953

Invited Talks

Number Theory Seminar, University of Wisconsin Madison 03/2025
Number Theory Seminar, University of Illinois Chicago 02/2025
Algebra and Number Theory Seminar, University of Arizona 02/2025
Algebraic Geometry and Number Theory Seminar, Michigan State University 01/2025
Number Theory Seminar, University of California Los Angeles 12/2024
Lightning talk at Sixteenth Algorithmic Number Theory Symposium (ANTS XVI) 07/2024
Algebra, Combinatorics, and Geometry Seminar, University of Pittsburgh 01/2024

Teaching Experience

University of Chicago

Graduate Student Lecturer

Math 15250 (Mathematical Methods for Economic Analysis) 01/2025 - 03/2025
Math 15200 (Calculus II) 09/2024 - 12/2024
Math 15300 (Calculus III) 09/2023 - 12/2023
Math 15200/15300 (Calculus II,III) 09/2022 - 03/2023
Math 13100/13200/13300 (Calculus I,II,III) 09/2021 - 06/2022

Teaching Assistant

Math 25700/25800/25900 (Honor Algebra I,II,III) 09/2020 - 06/2021

Mentor

Directed Reading Program in number theory 2023
Research Experience for Undergraduates program 2023,2024

Service

Co-organizer of No Theory seminar
(Student number theory seminar in UChicago) 10/2021 - 05/2022

Vice president of the Student Union
School of Mathematical Sciences, Peking University 03/2017 - 03/2018

Skills

- Mathematical Software: Pari/GP, Magma, SageMath, Mathematica
- Languages: English, Mandarin

Awards and Honors

Role-model for Merit Student of Peking University 2016,2017,2018
National Scholarship 2016
1st Prize in National High School Math Leagues, Gold Medal of Chinese Mathematical Olympiad,
selected into the National IMO Training Team 2014
Gold Medal of 13th Chinese Western Mathematics Invitation Competition, 1st Place, first fe-
male in history 2013
Gold Medal of 13th Chinese Girls Mathematical Olympiad, 1st Place 2014