

Jinyue Luo
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Employment

University of Arizona, Tucson, AZ, USA 2025 – Present
Postdoctoral Research Associate, Mentor: Anna Medvedovsky, Robert Pollack

Education

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

University of Chicago, Chicago, IL, USA 2019 – 2020
Master of Mathematics

Peking University, Beijing, China 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 (submitted)

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 Arizona

Instructor

Math 396L (WildCat Proofs Workshop)	01/2026 - 05/2026
Math 313 (Introduction to Linear Algebra, online)	01/2026 - 05/2026
Math 122B (Calculus I)	09/2025 - 12/2026

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

Coordinator of Undergraduate Teaching Assistant Program, 11/2025 - Present
University of Arizona

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

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

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 female in history 2013

Gold Medal of 13th Chinese Girls Mathematical Olympiad, 1st Place 2014