

Jinyue Luo  
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## Education

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**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

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

## Preprints

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*Pseudorepresentations not arising from genuine representations.* arXiv:2310.16953

## Invited Talks

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Algebra, Combinatorics, and Geometry Seminar, University of Pittsburgh 01/2024  
Lightning talk at Sixteenth Algorithmic Number Theory Symposium (ANTS XVI) 07/2024

## Teaching Experience

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### University of Chicago

#### Graduate Student Lecturer

Math 15200/15300 (Calculus II,III) 09/2024 - 03/2025  
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

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

Vice president of the Student Union  
School of Mathematical Sciences, Peking University

03/2017 - 03/2018

## Skills

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

## Awards and Honors

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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