
Personal Information

Birth: 1999, Chongqing, China

Gender: Male

Pronouns: he/him/his

Education

2022–(2027 expected)	Ph.D. in Mathematics, Zhejiang University Supervisor: Prof. Yifeng Liu Hangzhou, China
2025–2026	Visiting Student, Massachusetts Institute of Technology Cambridge, MA, United States
2018–2022	B.S. in Mathematics, Peking University Beijing, China

Research Interests

My research interests include algebraic number theory, automorphic representation theory, and their applications to the classical Langlands program. I have worked on arithmetic theta lifting for unitary groups, at the intersection of number theory, algebraic geometry, and representation theory.

I am also interested in formalizing mathematical olympiad problems and undergraduate-level mathematics in Lean4.

Research Work

- (1) (with Shurui Liu and Ping Nie) On the Manin constant (preprint, available at <https://arxiv.org/abs/2610.25672>)
- (2) (with Shaozhen Cao and Ping Nie) Density of forces producing Navier–Stokes blowup (preprint, available at <https://arxiv.org/abs/2609.10262>)
- (3) Spherical representations of unitary groups at ramified places and the arithmetic inner product formula (preprint, available at <https://arxiv.org/abs/2602.02492>)

Academic Service

- Teaching Assistant: 2022 Homological Algebra, 2023 Algebra III at Zhejiang University; 2024 Lean4 Summer Camp at Peking University.
- Organizer of five seminars on étale cohomology, arithmetic inner product formula, GL_2 local Langlands, p -adic Hodge theory, and p -adic geometry at Zhejiang University.

Honors & Awards

2017	Gold Medal, 33rd Chinese Mathematical Olympiad (CMO), Rank 59/356 Member of the National Training Team, Hangzhou, China
2018	Undergraduate Entry Scholarship, Peking University, Beijing, China
2021	Guoqin Scholarship, Peking University, Beijing, China

Skills

Programming	Python (no substantial software project experience yet); Lean4 (formal proof assistant; formalization of undergraduate mathematics and olympiad problems).
Languages	Chinese (native), English (working proficiency).