Curriculum Vitae

Xiangqian Yang

Contact Information

Beijing International Center for Mathematical Research,
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Education

- Ph.D. student in Mathematics Science, **Peking University**, September 2022 – Present. Advisor: Liang Xiao.

- B.Sc. in Mathematics Science, **Peking University**, September 2018 – July 2022.

Other Experiences

- Visiting Student Researcher, **Stanford University**, November 2024 – January 2025, Advisor: Xinwen Zhu.

- Visiting Student Research Collaborator, **Princeton University**, October 2023 – June 2024. Advisor: Shou-Wu Zhang.

Research Interests

- Langlands Program.

- Arithmetic Geometry

(Pre)publications

1. On the generic part of the cohomology of Shimura varieties of abelian type (joint with Xinwen Zhu). *arXiv:2505.04329.*

2. On Ihara's lemma for definite unitary groups. *arXiv:2504.07504.*

Research Talks

- Number Theory Seminar, Cambridge University, October 2025.
- Number Theory Seminar, Oxford University, October 2025.
- BIRS-CMO workshop on "Categorical and Geometric Structures in the Langlands Program", Oaxaca (virtual talk), September 2025.
- BIRS-IASM workshop on "New Tools in the Local and Global Langlands Program", Zhejiang, July 2025.
- Minicourse in "Lectures on Arithmetic Geometry", Peking University, June 2025.
- Number Theory and Representation Theory Seminar, Zhejiang University, June 2025.
- Number Theory Seminar, Stanford University, January 2025.
- Conference on "p-adic Methods in Number Theory and Arithmetic Geometry", Tianyuan Mathematics Research Center, November 2024.

Teaching experiences

- Teaching Assistant for "Linear Algebra A", Peking University, Fall 2025.
- Teaching Assistant for "Number Theory II", Peking University, Spring 2025.
- Teaching Assistant for "Abstract Algebra", Peking University, Fall 2022.

Honors & Awards

- Huaixin Bachelor, Beijing International Center for Mathematical Research, Peking University, 2022.
- Bronze Medal for Algebra, Number Theory, and Combinatorics in S.-T. Yau College Student Mathematics Contest, 2019.
- Two Gold Medals in the Chinese Mathematical Olympiad, 2016 and 2017.