Name: Peihang Wu

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## Employment

Postdoctoral Fellow, BICMR, mentor: Liang Xiao — Oct. 2024 - Current

## Education

**University of Minnesota, Twin Cities** — Minneapolis, MN, USA
*Ph.D. in Mathematics* — *Sep. 2018 – Aug 2024*

- Advisor: Kai-Wen Lan
- Thesis: Arithmetic Compactifications of Integral Models of Shimura Varieties of Abelian Type

**Fudan University** — Shanghai, China
*B.S. in Mathematics* — *Sep. 2014 – Jun. 2018*

## Research Interests

Current research areas:

- Geometry of integral models of Shimura varieties and their compactifications
- Cohomology of automorphic sheaves on Shimura varieties and their compactifications

## Writings

- Arithmetic Compactifications of Integral Models of Shimura Varieties of Abelian Type, revision of PhD thesis, 2025
- 2 other writings in preparation and 2 projects in progress

## Invited Talks

Compactifications of Integral Models of Shimura Varieties of Abelian Type — Oct. 29 and 31, 2024

- One introductory talk and one research talk at Morningside Center of Mathematics

## Teaching

**Teaching at Peking University** — Fall 2024 - Current

- No teaching assignments currently

**Teaching at UMN** — Fall 2018 - Spring 2024

- Spring 2024, Teaching Assistant for Math1272 Section 013 and 014
- Fall 2023, Instructor for Math1271 (Calculus I) Secion 002
- Spring 2023, Teaching Assistant for Math2374 Section 021, 022, 023 and 024 (on Mathematica Programming)
- Fall 2022, Teaching Assistant for Math2374 Section 012 and 013
- Summer 2022, Instructor for Math1272 (Calculus II) Section 003
- Spring 2022, Teaching Assistant for Math2373 Section 014 and Section 023
- Fall 2021, Teaching Assistant for Math2374 Section 012 and 013
- Spring 2021, Teaching Assistant for Math2373 (Linear Algebra and Differential Equations) Section 013 and 031

- Fall 2020, Teaching Assistant for Math2374 Section 014
- Fall 2019, Teaching Assistant for Math2374 (Multi-variable Calculus) Section 012 and 014
- Spring 2019, Grader for Math8301 (Manifolds and Topology), Math4242 (Applied Linear Algebra, 2 sections)
- Fall 2018, Grader for Math8201 (General Algebra), Math8301 (Manifolds and Topology), Math4242 (Applied Linear Algebra, 3 sections)

**Teaching at Fudan University** Spring 2018

- Spring 2018, Grader for Real Analysis

## (Online) Conferences and Workshops Attended

- The Sixth Abel Conference, Nov. 2018, UMN
- Arizona Winter School 2020: Nonabelian Chabauty, Mar. 2020, University of Arizona
- Cross Atlantic Representation Theory and Other topics ONline conference, May 2020, online
- Arizona Winter School 2022: Automorphic Forms Beyond $GL_2$ (registered virtually), Mar. 2022, University of Arizona
- Summer School and Workshop on Relative Langlands Duality, Jun. 2024, UMN
- $p$-adic Methods in Number Theory and Arithmetic Geometry, Nov. 2024, Tianyuan Mathematics Research Center
- Arithmetic Geometry in Shenzhen, Dec. 2024, SUSTech