

Zhixiang Wu

Curriculum Vitae

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📁 wzxmath.github.io

Positions

2022–now **Postdoc**, Mentor: Eugen Hellmann, Universität Münster, Münster.

Education

2019–2022 **Phd in mathematics**, Thesis advisor: Benjamin Schraen, Université Paris-Saclay, Orsay.

2018–2019 **Master(M2) in Arithmétique, Analyse, Géométrie**, Université Paris-Sud, Orsay.

2014–2018 **Bachelor of Science in Pure and Applied Mathematics**, Tsinghua University, Beijing.

Papers

1. A note on presentations of supersingular representations of $GL_2(F)$. *manuscripta math.* 165, 583–596 (2021).
2. Local models for the trianguline variety and partially classical families. *Annales scientifiques de l'École normale supérieure*, vol. 57-3 (2024), 615–711.
3. Companion points on the eigenvariety with non-regular weights. *International Mathematics Research Notices*, 2023(9):8008–8032, 2023.
4. Geometric translations of (φ, Γ) -modules for $GL_2(\mathbb{Q}_p)$. 2024.
5. Bernstein-Zelevinsky duality for locally analytic principal series representations (with Matthias Strauch). 2024.

Talks

- 20/09/2023 The Early Number Theory Researchers Workshop 2024, Essen
25/05/2023 p -adic day, Beijing
09/04/2023 Mittagsseminar zur Arithmetik, Münster
08/2023 Mini-course on categorical p -adic Langlands program, Beijing
17/08/2023 Mini-conference on p -adic Langlands program, Beijing
31/01/2023 Mittagsseminar zur Arithmetik, Münster
15/02/2022 Algebra Number theory seminar at University of Arizona, online
14/12/2021 Journées Arithmétique du LAGA, Villetaneuse
01/06/2021 Séminaire Arithmétique et Géométrie Algébrique, Orsay
19/04/2021 UCLA Number Theory Seminar, online.
13/04/2021 University of Münster, online.
07/04/2021 POINTS - Peking Online International Number Theory Seminar, online.
23/11/2020 Paris-London Number Theory Seminar, online.
30/11/2019 Séminaire MathJeunes, Jussieu, Paris.

Teaching

- Spr. 2024 Exercise session of Algebraic Geometry II, Münster
- Aut. 2023 Exercise session of Algebraic Geometry I, Münster
- Spr. 2023 Exercise session of Smooth Representations of p -adic Groups, Münster
- Aut. 2021 TD of Math 1: Calculus, Université Paris-Saclay, Orsay

Services

- Reviewer zbMATH, MathSciNet
- Referee manuscripta mathematica, Peking Mathematical Journal, Indagationes Mathematicae, Astérisque, Journal of Number Theory
- 2020-2022 Co-organizer of Mathjeunes seminar

Experience

- 08/2023 Visiting researcher, Peking university, Beijing
- 05/2023 Trimester Program: The Arithmetic of the Langlands Program, Hausdorff Research Institute for Mathematics, Bonn
- Spr. 2018 Exchange program of Ecole Normale Supérieure, Ecole Normale Supérieure, Paris.
Undergraduate thesis supervisor: Jean-François Dat
- 2018-2019 Master scholarship of The Mathematics Foundation Jacques Hadamard (FMJH)
- 08/2017 S.T.Yau college student mathematics contests, Silver Prize in Algebra and Number Theory.
- 2015-2018 Tsinghua Xue Tang Ban Program in Mathematics.

Skills & Languages

- Skills C/C++, Matlab, Mathematica, SageMath, Macaulay2, \LaTeX
- Languages Chinese, English, French(basic)