

Zhixiang Wu

Curriculum Vitae

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Research Interests

- Algebraic number theory, representation theory
- Automorphic forms and Galois representations
- p -adic Langlands program

Positions

- 2025–now **Researcher**, University of Science and Technology of China, Hefei.
2022–2025 **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 $\mathrm{GL}_2(F)$. *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 $\mathrm{GL}_2(\mathbb{Q}_p)$. accepted by *Israel Journal of Mathematics*. 2024.
5. Bernstein-Zelevinsky duality for locally analytic principal series representations (with Matthias Strauch). 2025.

Talks

- 05,12/12/2025 p -adic Langlands Program Seminar, Morningside Center of Mathematics, Beijing
14,21/10/2025 Mittagsseminar zur Arithmetik, Münster
16/05/2025 Workshop on Frontiers in Number Theory, Tianyuan Center for International Exchange in Mathematics, Kunming
06/05/2025 Seminar Darstellungstheorie, Wuppertal
25/04/2025 Seminar on Arithmetic Geometry, TU Darmstadt
01/04/2025 ANR COLOSS conference "Arithmetic and geometry of locally symmetric spaces", Lyon
25/03/2025 2025 Lyon-Tokyo conference Number Theory and Arithmetic Geometry, Lyon

- 20/09/2024 The Early Number Theory Researchers Workshop 2024, Essen
 25/05/2024 p -adic day, Beijing
 09/04/2024 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 Linear Algebraic Groups, Münster
 Aut. 2024 Exercise session of Algebraic Number Theory, Münster
 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, Advances in mathematics
 Spr. 2024 Organizer of Mittagsseminar zur Arithmetik, Münster
 2020-2022 Co-organizer of Mathjeunes seminar, Paris

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, L^AT_EX

Languages Chinese, English, French(basic)