

# Zhixiang Wu

## Curriculum Vitae

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📄 [wzxmath.github.io](https://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  $(\varphi, \Gamma)$ -modules for  $GL_2(\mathbb{Q}_p)$ . 2024.
5. Bernstein-Zelevinsky duality for locally analytic principal series representations (with Matthias Strauch). 2024.

### Talks

- 20/09/2024 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.

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## 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

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## Services

- Reviewer zbMATH, MathSciNet
- Referee manuscripta mathematica, Peking Mathematical Journal, Indagationes Mathematicae, Astérisque, Journal of Number Theory
- Spr. 2024 Organizer of Mittagsemnar zur Arithmetik, Münster
- 2020-2022 Co-organizer of Mathjeunes seminar, Paris

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## 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.

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## Skills & Languages

- Skills C/C++, Matlab, Mathematica, SageMath, Macaulay2, L<sup>A</sup>T<sub>E</sub>X
- Languages Chinese, English, French(basic)