

Zhixiang Wu

Curriculum Vitae

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📁 wzxmath.github.io

Research Interests

Algebraic number theory, representation theory
Automorphic forms and Galois representations

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.

Positions

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

Papers

Publications

1. A note on presentations of supersingular representations of $GL_2(F)$. *manuscripta math.* 165, 583–596 (2021).
2. Companion points on the eigenvariety with non-regular weights. *International Mathematics Research Notices*, 2023(9):8008–8032, 2023.

Preprints

3. Local models for the trianguline variety and partially classical families. accepted in *Annales scientifiques de l'École normale supérieure*.

Talks

- 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

Aut. 2023 Exercise session of Algebraic Geometry I, Münster
Spring. 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
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)