Zhixiang Wu

Curriculum Vitae

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wzxmath.github.io

Research Interests

- algebraic number theory and arithmetic geometry
- representation theory of p-adic Lie groups
- p-adic automorphic forms, eigenvarieties and Galois representations
- p-adic and mod-p local Langlands programs

Education

2019–now **Phd student 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

Publications

1. A note on presentations of supersingular representations of $\mathrm{GL}_2(F)$. manuscripta math. 165, 583-596 (2021).

Preprints

2. Local models for the trianguline variety and partially classical families. (2021)
3. Companion points on the eigenvariety with non-regular weights. (2021)

Talks

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. 2021 TD of Math 1: Calculus, Université Paris-Saclay, Orsay

Experience

Spr. 2019 **Master thesis**, Université Paris-Sud, Orsay.
Master thesis advisor: Benjamin Schraen
Title: Mod-p representations of p-adic Lie groups

Spr. 2018 Exchange program of Ecole Normale Superieure, Ecole Normale Superieure, 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)