

Zhouhang Mao

Curriculum Vitæ

UvA (to complete)
Nederland

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Academic Positions

- Sep 2023– Postdoctoral Researcher, Universiteit van Amsterdam, Amsterdam, Nederland
Mentor: Lenny Taelman
- Oct 2021–Aug 2023 Postdoctoral Researcher, Institut de Mathématique d'Orsay, Orsay, France
Mentor: Kęstutis Česnavičius

Education

- Sep 2018–Oct 2021 Ph.D. in mathematics, Sorbonne Université, Paris, France
Thesis: On derived crystalline cohomology and perfectoid rings as Thom spectra
Advisor: Matthew Morrow
- Sep 2017–Aug 2018 3rd year, École Normale Supérieure, Paris, France
- Sep 2016–Aug 2017 M2 in mathematics, Université Paris-VII
Mémoire: Comparisons of different constructions in algebraic K-theory
Advisor: Matthew Morrow
- Sep 2015–Aug 2016 M1 in mathematics, École Normale Supérieure, Paris, France
- Sep 2012–Aug 2015 B.Sc. in mathematics, Fudan University, Shanghai, China

Preprints and publications

- 2021 Revisiting derived crystalline cohomology, arXiv:2107.02921, submitted
- 2020 Perfectoid rings as Thom spectra, arXiv:2003.08697, Selecta Mathematica

Conferences and workshops attended

- Mar 2023 Condensed Mathematics, CIRM Marseille
- Jan 2023 Topological Hochschild Homology and Zeta Values, University of Copenhagen
- Sep 2022 Algebra Day in Paris, Institut Henri Poincaré
- Jun 2022 Twinned Conference on Homotopy Theory with Applications to Arithmetic and Geometry, MPIM
- Jun 2022 CATS60, Institut de Mathématiques de Toulouse
- Jun 2022 Workshop on derived geometry, CRM Barcelona
- Mar 2022 Cohomology of Varieties, IMPAN in Warsaw
- Jan 2020 Issac Newton Institute KAWH01 — Introductory workshop on motives
- Mar 2019 Arizona Winter School 2019 — Topology and Arithmetic
- Sep 2018 CATS5 — Categories and stacks in algebraic geometry and algebraic topology

Invited talks

- Revisiting derived crystalline cohomology
- 10 Feb 2023 Arithmetic Algebraic Geometry, Technical University of Darmstadt
- 8 Mar 2022 Séminaire d'Homotopie en Géométrie Algébrique, Institut de Mathématiques de Toulouse
- 9 Nov 2021 Séminaire d'Arithmétique et de Géométrie Algébrique, Université Paris-Saclay

Perfectoid rings as Thom spectra

■ Reviewing activity

Referee (1 paper) for *Compositio Mathematica*

■ Teaching Experience

2021 Spring TD L2 Intégrale de Lebesgue sur \mathbb{R}^n

(Exercise sessions: Lebesgue integral on \mathbb{R}^n)

2020 Fall TD L2 Algèbre et Arithmétique

(Exercise sessions: Elementary Number Theory and Algebra)

2020 Spring TD L2 Algèbre linéaire et bilinéaire IIa

(Exercise sessions: Linear and bilinear algebra)

2019 Fall TD L2 Séries et Intégrales

(Exercise sessions: Series and Integrals)