

Curriculum Vitae

Zhenghui Li

PERSONAL INFORMATION

Contact zhenghuili@imj-prg.fr
Nationality Chinese

EDUCATION

10/2022-Now **Ph.D in Mathematics**
Sorbonne Université
Thesis director: Prof. Wiesława Nizioł.

10/2020-06/2022 **Master in Mathematics** ALGANT Master Program
Université de Bordeaux, France (2021-2022)
Universität Regensburg, Germany (2020- 2021)

09/2016-06/2020 **Bachelor in Science**
Nanjing University, China

ARTICLES

- 1 On p -torsions of geometric Brauer groups (with Yanshuai Qin), preprint arxiv 2406.19518.
- 2 Duality for arithmetic p -adic pro-étale cohomology of analytic spaces. preprint arxiv 2412.11786.
- 3 F-isocrystals of Higher Direct Images of p -Divisible Groups (with Yanshuai Qin), preprint arxiv 2506.11736.

INVITED TALKS

- 2024 Séminar Mathjuene: Poincare duality for p -adic étale cohomology of rigid analytic varieties.
Nanjing University: Poincare duality for p -adic étale cohomology of Stein spaces and p -adic Langlands program.
- 2025 IMJ-PRG number theory seminar: Duality for arithmetic p -adic pro-étale cohomology of analytic spaces.
Workshop on arithmetic $K3$ surfaces: Boundedness of the p -primary torsions of geometric Brauer groups.
Bucharest Number Theory days: Duality for arithmetic p -adic pro-étale cohomology of analytic spaces.

Arithmetic and Algebraic Geometry Week (Iasi): On p -torsions of geometric Brauer groups.

SEMINAR REPORTS

- | | |
|------|---|
| 2023 | IMJ-PRG preprint seminar: \mathbb{Z}_p -lattices in semistable Galois representations. (après Zijian Yao) |
| 2024 | Séminaire d'étude de la thèse d'Arnaud: The cuspidal case. |
| 2025 | IMJ-PRG preprint seminar: Berthelot's conjecture via homotopy theory. (après Veronika Ertl and Alberto Vezzani) |

ATTENDED CONFERENCES

- | | |
|---------|---|
| 05/2025 | Workshop on condensed maths and Arakelov geometry. (Strasbourg) |
| 05/2025 | Workshop on arithmetic $K3$ surfaces. (Lausanne) |
| 03/2025 | Annual Meeting: Simons Collaboration on Perfection in Algebra, Geometry and Topology. (NewYork) |
| 12/2024 | Workshop on analytic de Rham stacks. (Warsaw) |
| 11/2024 | Workshop on p -adic geometry. (Singapoo) |
| 09/2024 | Summer school on Shimura variety and Hodge theory. (Essen) |
| 07/2024 | Conference on K-theory and arithmetic. (Bedlewo) |
| 06/2024 | Workshop on p -adic Riemann-Hilbert correspondence. (Padova) |
| 01/2024 | Conference on p -adic Geometry. (Shenzhen) |
| 10/2023 | Conference for Rapaport's birthday. (Munster) |
| 08/2023 | Workshop on THH and prismatic cohomology. (Shenzhen) |
| 08/2023 | Conference on algebraic and arithmetic geometry. (Nanjing) |
| 07/2023 | Workshop on Vanishing of étale cohomology of Shimura varieties. (Bonn) |
| 05/2023 | Summer school on arithmetic Langlands and p -adic geometry. (Bonn) |
| 03/2023 | Workshop on condensed maths. (Marseille) |