Loïc Gassmann

PhD Student in Maths

Institution: University of Fribourg, Switzerland
Date of birth: 12/02/2000
Hometown: Colmar, France
Research fields: Probability, percolation, statistical mechanics
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Education

- **PhD in Mathematics** *2024–*
  FK-percolation, critical and off-critical behaviours
  Fribourg University, supervised by Ioan Manolescu
- **Pre-doctoral internship** *2023–2024*
  Research year financed by École Normale Supérieure
  Fribourg University, supervised by Ioan Manolescu
- **Master in Probability and Statistics** *2022–2023*
  Université Paris-Saclay, Orsay
- **École Normale Supérieure, Paris-Saclay** *2020–2024*
  Double diploma Maths/Informatics
- **Classe préparatoire** *2017–2020*
  Lycée Henri-IV, Paris

Research articles

- **Analyticity of the correlation length in subcritical FK-percolation and Potts models**
  With Lucas D'alimonte, preprint arXiv:2610.23843, 2026
- **Uniform analyticity of local observables in FK-percolation and analyticity of the Ising spontaneous magnetisation**
  With Lucas D'alimonte, preprint arXiv:2604.18558, 2026
- **Comparison of arm exponents in planar FK-percolation**
  With Ioan Manolescu, Latin Am. jour. of prob. and math. stat., 2024
- **Ordering and Convergence of Large Degrees in Random Hyperbolic Graphs**
  Advances in applied probability, 2024

Research visits

- **Master Thesis** *Spring 2023*
  IHES, supervised by Piet Lammers
- **Master's internship** *Spring 2022*
  University of Rouen, supervised by Pierre Calka

Teaching

- **Teaching assistant** *2024–*
  Linear algebra I and II, Analysis I and II, linear algebra for non-mathematics students, discrete math
- **Colleur in classe prépa, Lycée Henri-IV** *2021-2023*
  Oral exams preparation for students in preparatory classes