Quentin Moulard

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Education

2024–present **PhD in Mathematics** (expected 2027), TU Wien, Vienna, Austria.
Supervisors: Giuseppe Cannizzaro and Fabio Toninelli.

2020–2024 **École normale supérieure (ENS Ulm)**, Paris, France.
Diplôme de l'ENS (Mathematics).

2023 **Master's degree in Mathematics**, Université Paris-Saclay, France.

2021 **Bachelor's degree in Mathematics**, Sorbonne Université, Paris, France.

2018–2020 **Classes préparatoires, MPSI and MP***, Lycée Louis-le-Grand, Paris, France.

Publications and preprints

Note: No AI was used for the mathematical development of the following articles.

[1] **Superdiffusive Invariance Principle for the two-dimensional Asymmetric Simple Exclusion Process**, preprint (Oct 2026). arXiv:2610.18847.

[2] **Superdiffusive central limit theorem for a class of driven diffusive systems at the critical dimension**, with Giuseppe Cannizzaro and Tom Klose, *Probability Theory and Related Fields* (Jul 2026). DOI: 10.1007/s00440-026-01515-8; arXiv:2601.05945.

[3] **Dimers with layered disorder**, with Fabio Toninelli, preprint (Jul 2025). arXiv:2507.11964.

[4] **Superdiffusive Central Limit Theorem for the Stochastic Burgers Equation at the critical dimension**, with Giuseppe Cannizzaro and Fabio Toninelli, preprint (Jan 2025), submitted to *Inventiones Mathematicae*. arXiv:2501.00344.

Research talks

Aug 2026 *Workshop "Analysis, Probability and Mathematical Physics"*, INdAM, Cortona, Italy, (short talk).

Jun 2026 *Probability at Warwick (P@W) Seminar*, University of Warwick, UK.

Mar 2026 *Workshop "From Discrete Systems to SPDEs"*, TU Wien, Austria.

Feb 2026 *SFB Winter Status Workshop*, TU Graz, Austria.

Dec 2025 *Vienna Probability Seminar*, ISTA, Austria.

Sep 2025 *Workshop "Large Scale Stochastic Dynamics"*, Mathematisches Forschungsinstitut Oberwolfach, Germany.

Jul 2025 *P@W Summer School: "Recent Trends in Probability and Statistics"*, University of Warwick, UK (short talk).

May 2025 *Applied Probability Seminar*, University of Warwick, UK.

May 2025 *Stochastic Analysis Seminar*, University of Oxford, UK.

Teaching experience

- **Mathematics oral examiner (*colleur*)**, 2020-2022, MP* preparatory class, Lycée Louis-le-Grand, Paris, France.
  Conducted small-group oral examinations and provided feedback on mathematical problem-solving.

Honours and prizes

- **2020 — Ranked 1st** in the ENS Ulm entrance examination (MP stream, Mathematics–Physics).
- **2020 — First prize (team)**, SMF Junior Mathematics Competition (Société Mathématique de France), team *Bestial*.
- **2022 — Joint second prize (team)**, SMF Junior Mathematics Competition (Société Mathématique de France), team *Mathadors*.