

Paul Rax

PhD student at INRIA Paris/ DIENS

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## Education

- 2024– **PhD thesis**, *MATHNET team (INRIA Paris) and DIENS (ENS-PSL)*, Under the supervision of F.Baccelli and R.Lachièze-Rey
- 2024 **Internship**, "*Projet Long de Recherche*" (fourth year at *ENS de Lyon*), UIBK (Innsbruck)
- 2023-2024 **Internship**, "*Projet Long de Recherche*", LPSM (Jussieu)
- 2022-2023 **Gap year**, "*césure de diplôme*"
- 2021-2022 **Master 2 Mathematics of Randomness**, *Université Paris-Saclay*, Probability and Stat specialization
- 2020-2021 **Master 1 Advanced Maths**, *ENS de Lyon*
- 2019-2020 **Bachelor in Fundamental Math**, *ENS de Lyon*
- 2019-2024 **Student at ENS de Lyon**, *ENS de Lyon*, Math Department
- 2017-2019 **MPSI-MP\* (Classe préparatoire)**, *Lycée Blaise Pascal*, Orsay

## Diplomas

- 2025 **ENS de Lyon Diploma**, *Mathematics*, *ENS de Lyon*
- 2022 **Master Mathematics and Applications**, *M2 Mathematics of Randomness*, *Université Paris-Saclay*
- 2020 **Bachelor in Fundamental Mathematics**, *ENS de Lyon*
- 2019 **Admitted at ENS de Lyon**, *Computer science exam*

## Teaching activities

- 2025 **Exercise sessions**, *Last year Bachelor students*, *Advanced Probabilities*, *Sorbonne université*
- 2021-2022 **"Colleur" (oral examiner) in Math**, *PC\**, *Lycée Blaise Pascal*, *Orsay*, 2h/week
- 2020-2021 **Colleur in Math**, *MPSI 831*, *Lycée du Parc*, *Lyon*, 2h/week
- 2020 **Colleur in Math**, *MPSI A*, *Lycée Blaise Pascal*, *Orsay*, 2h/week  
Volunteering during lockdown (april-june)
- 2019-2020 **Volunteering homework help**, *ENSeigner association*
- 2017-2018 **Jury for  $TFJM^2$  (french version of ITYM)**, *Île-de-France regional tournament*

## Research

- 2025 **Stochastic domination and lifts of random variables in percolation theory**, *Joint work with Sébastien Martineau and Rémy Poudevigne*, arXiv :2504.02427

## Language skills

- English **Fluent**, *official certification only done for C1*, Cambridge Advanced level of English
- Allemand **B1**, *Deutsches Sprachdiplom (DSD)*