



# Corentin Faipeur

*PhD student at Institut Fourier - Univ. Grenoble Alpes*

## Education

- 2021–2025 **PhD in Probability**, *Institut Fourier*, Univ. Grenoble Alpes  
supervised by Vincent Beffara
- Dec. 2022 **Internship on teaching in higher education levels**, Autrans
- 2020–2021 **Master 2 in advanced mathematics**, *ENS of Lyon*, Probability and Statistics  
Research internship on Glauber dynamics and Gibbs measures, supervised by Vincent Beffara (Grenoble, 5 months)
- 2020 **Agrégation de Mathématiques (French competitive exam for teachers)**  
Option A : Probability and Statistics. Ranked 30th in all of France.
- 2018–2020 **Master's degree in Mathematics**, *Univ. Claude Bernard Lyon 1*  
Teaching internship in high school (2 weeks) and presentation of the workshops "MATHàLYON"
- 2017–2018 **Bachelor's degree in Mathematics**, *Univ. Claude Bernard Lyon 1*  
Introduction to research internship on Markov chains and ecology, supervised by Olivier Goubet (Amiens, 2 months)
- 2015–2017 **Preparatory classes**, in *Lycée du Parc* then *Univ. Claude Bernard*, Lyon

## Preprints

- **Corentin Faipeur**, *Glauber dynamics and coupling-from-the-past for Gaussian fields*, 2024, Available at <https://arxiv.org/abs/2410.18504>
- **Corentin Faipeur**, *Subcritical Boolean percolation on graphs of bounded degree*, 2024, Available at <https://arxiv.org/abs/2410.15722>

---

## Teaching

- 2024 **Real analysis**, *Univ. Grenoble Alpes*  
Tutorials for first year students
- 2022-2024 **Introduction to probability**, *Univ. Grenoble Alpes*  
Tutorials for second year students
- 2021-2023 **Mathematical language, elementary algebra and geometry**, *Univ. Grenoble Alpes*  
Courses and tutorials for first year students

---

## Talks

- July 2024 **Probability Summer School**, *LMBP*, Saint-Flour  
Glauber dynamics and coupling from the past for Gaussian fields (Webpage of the school)
- Nov. 2023 **"Compréhensible" seminar for PhD students**, *Institut Fourier*, Grenoble  
Finitely dependent coloring of  $\mathbb{Z}$  (Abstract)
- Oct. 2023 **Young Probabilists and Statisticians Conference**, Saint-Pierre d'Oléron  
Dynamique de Glauber et couplage par le passé pour champs gaussiens (Webpage of the conference)
- June 2023 **PPPP 2023**, Grenoble  
Superconcentration and chaos for spin glasses (Webpage of the conference)
- April 2023 **Probability seminar**, *Institut Fourier*, Grenoble  
Dynamique de Glauber et couplage par le passé pour champs gaussiens (Abstract)
- Oct. 2022 **PhD days**, *Institut Fourier*, Grenoble  
Coupling from the past for Gaussian fields (Program)
- 2021– **Working group**, *Institut Fourier*, Grenoble  
Numerous presentations on recent research articles, as part of the working group I co-organise (List of the talks)

---

## Attended conferences, workshop...

- Aug. 2024 **Journées MAS**, Angers  
Webpage of the conference
- July 2024 **Probability Summer School**, *LMBP*, Saint-Flour  
Webpage of the school
- Oct. 2023 **Young Probabilists and Statisticians Conference**, Saint-Pierre d'Oléron  
Webpage of the conference
- Aug. 2023 **Workshop Percolation and Interactions**, *CIRM*, Marseille  
Webpage of the workshop

- June 2023 **PPPP 2023 : Superconcentration and chaos, the example of first passage percolation**, Grenoble  
Webpage of the conference
- Nov. 2022 **Lyon-Grenoble-Geneva Probability Day**, Grenoble  
Webpage of the conference
- Aug 2022 **Journées MAS**, Rouen  
Webpage of the conference
- Juil. 2022 **Joint Congress of Mathematics, AMS-EMS-SMF**, Grenoble  
Webpage of the congress
- May 2022 **Probabilités days**, Orbey  
Webpage of the conference

## Misc.

- Languages French (native), english (advanced), spanish (basic)
- Programming  $\LaTeX$ , Python, R
- Diffusion Videos on the sensitivity conjecture (in french)