

Positions

- 2023– **Associate Professor ("Maître de conférences")**, *Université Paris-Dauphine*
2022–2023 **Postdoc position**, *Università Roma 1 La Sapienza*, hosted by Lorenzo Taggi
2020–2022 **Teaching and research assistant (A.T.E.R.)**, *Université d'Aix-Marseille*

Education

- 2017–2020 **PhD Thesis**, *ENS Paris / Université Paris-Saclay*
with Raphaël Cerf, on the subject "About self-organized criticality"
2013–2017 **Graduation from École normale supérieure**, *Paris*
2016–2017 **Master in Probability**, *Université Paris-Sud (Orsay)*
2015–2016 **Master in Theoretical Physics**, *ENS Paris*
2013–2014 **Bachelor of Mathematics**, *ENS Paris*

Publications

- **An extension of the Ising-Curie-Weiss model of self-organized criticality with a threshold on the interaction range**, *Electron. J. Probab.* 29 (2024), article no. 15, 1–27, www.doi.org/10.1214/24-EJP1077
- **Active phase for Activated Random Walks on the Lattice in all Dimensions** (2022, with A. Gaudillière), to appear in *Annales de l'IHP*, www.arxiv.org/abs/2203.02476
- **Some toy models of self-organized criticality in percolation** (2022, with R. Cerf), *ALEA, Lat. Am. J. Probab. Math. Stat.* 19, 367–416, www.doi.org/10.30757/ALEA.v19-14
- **A planar Ising model of self-organized criticality** (2021), *Probab. Theory Related Fields* 180, 163–198, www.doi.org/10.1007/s00440-021-01025-9

Preprints

- **Coexistence, enhancements and short loops in random walk loop soups** (2023, with M. Quattropiani, A. Quitmann and L. Taggi), www.arxiv.org/abs/2306.12102
- **The Critical Density for Activated Random Walks is always less than 1** (2022, with A. Asselah and A. Gaudillière), www.arxiv.org/abs/2210.04779

Invited lectures

- Apr. 2024 **Probability seminar**, *LAGA, Sorbonne-Paris-Nord*
Mar. 2024 **Amiens-Calais dynamics and probability day**, *LMPA, Université Littoral Côte d'Opale, Calais*
Dec. 2023 **Probability seminar**, *LPSM, Sorbonne-Université*
Sept. 2023 **Analysis-Probability seminar**, *Ceremade, Université Paris-Dauphine*

Nicolas Forien, Ceremade, office C614

Université Paris-Dauphine, Place du Maréchal de Lattre de Tassigny, 75 775 Paris Cedex 16, France

✉ forien@ceremade.dauphine.fr • 🌐 www.ceremade.dauphine.fr/~forien/ 1/2

Aug. 2023 **Workshop “Percolation et interactions”**, *CIRM, Marseille*
Jul. 2023 **Conference “Stochastic Processes and Applications”**, *Lisbon*
Oct. 2022 **Probability seminar**, *Weierstrass Institute, Berlin*
June 2022 **Italian meeting on probability and mathematical statistics**, *University of Bologna*
May 2022 **Probability seminar**, *La Sapienza University, Rome*
May 2022 **Workshop “Random Walks, Reinforcement and Localization”**, *CIRM, Marseille*
Mar. 2022 **Probability seminar**, *Institut de Mathématiques de Marseille*
Mar. 2022 **Probability seminar**, *Institut Fourier, Grenoble*
Nov. 2020 **Probability seminar**, *Institut de Mathématiques de Marseille*
Aug. 2020 **Bernoulli-IMS One World Symposium**
June 2020 **PhD students seminar**, *Laboratoire de mathématiques d’Orsay*
Mar. 2020 **Presentation for Animath**, *Lycée Jacques Decour, Paris*
Feb. 2020 **Probability seminar**, *Rennes*
Feb. 2020 **Workshop of the team ANR Percolation and First Passage Percolation**, *Grenoble*

Conferences, seminars

Feb. 2023 **Workshop “Universality in Condensed Matter and Statistical Mechanics”**, *Rome*
July 2022 **Francesca Romana Nardi: a life in probability, building communities across Europe**, *Florence*
April 2022 **Annual conference “Random Geometric Systems”**, *WIAS, Berlin*
May 2019 **Colloquium “Les Probabilités de demain”**, *Université Paris Diderot*
July 2018 **Probability Summer School**, *Saint-Flour*
Jan. 2018 **Itzykson seminar (statistical mechanics)**, *IHES, Bures-sur-Yvette*
Jan. 2018 **Young Statisticians and Probabilists Day**, *Institut Henri Poincaré, Paris*
Mar. 2016 **Biophysics thematic school**, *Les Houches*
July 2014 **Summer school “biology for mathematicians”**, *CIRM, Marseille*

Teaching experience

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2020–2022 **Teaching and research assistant (A.T.E.R.)**, *Aix-Marseille University*
2017–2020 **Tutorials of Mathematics**, *Multidisciplinary undergraduate degree (CPES) of Paris Sciences et Lettres (PSL)*
2014–2017 **Oral examinations in preparatory classes**, *Lycée Louis-le-Grand, Paris*
2013–2014 **Tutor**, *TalENS*, Equal opportunity programme of ENS Paris

Miscellaneous

- Fluent in **English** and **Italian**, and intermediate level in **German**.
- First national prize in the French Mathematics Olympiads (2010).
- Programming languages C and C++.

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