Nicolas Forien

Curriculum Vitae

Positions

2022–	**Postdoc position**, *La Sapienza University*, Rome, hosted by Lorenzo Taggi.
2020–2022	**Teaching and research assistant (A.T.E.R.)**, *Aix-Marseille University*.

Education

2017–2020	**PhD Thesis**, *Mathematics department of ENS Paris*.
	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

- **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

- **Active phase for Activated Random Walks on the Lattice in all Dimensions** (2022, with A. Gaudillière), `www.arxiv.org/abs/2203.02476`
- **An extension of the Ising-Curie-Weiss model of self-organized criticality with a threshold on the interaction range** (2021), `www.arxiv.org/abs/2110.07949`
- **An extension of the Ising-Curie-Weiss model of self-organized criticality with long range interactions** (2021), `www.arxiv.org/abs/2110.07948`

Invited lectures

June 2022	**Italian meeting on probability and mathematical statistics**, *University of Bologna*.
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

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

2020–2022 **Teaching and research assistant (A.T.E.R.)**, *Aix-Marseille University*.
Lectures and Exercise sessions in algebra and analysis for first year students.

2017–2020 **Tutorials of Mathematics**, *Multidisciplinary undergraduate degree (CPES) of Paris Sciences et Lettres (PSL)*.
General mathematics (algebra, analysis and probability) for 2$^{\text{nd}}$ year students.

2014–2017 **Oral examinations in preparatory classes**, *Lycée Louis-le-Grand, Paris*.
2013–2014 **Tutor**, *TalENS*, Equal opportunity programme of ENS, on the topic of genetics..

Pedagogical trainings

Mar. 2020 **"Discovery of problem and project-based learning"**, *Univ. Paris-Saclay (Orsay)*.
Feb. 2020 **"Boost your teaching with active learning"**, *UVSQ (Versailles)*.
June 2018 **"Feedback on teaching at the University"**, *Université d'Orsay*.

Miscellaneous

- Fluent in **English** (TOEFL 104/120), **Italian** (C1 level) and **German**.
- First national prize in the French Mathematics Olympiads (2010).
- Programming languages C and C++.

References

- **Raphaël Cerf**, Professor, Université Paris-Saclay / ENS Paris
- **Alexandre Gaudillière**, Researcher, CNRS / Institut de Mathématiques de Marseille

Autorizzo il trattamento dei dati personali contenuti nel presente curriculum vitae ai sensi del D.Lgs. 196/2003 "Codice in materia di protezione dei dati personali".
Autorizzo la pubblicazione del presente curriculum vitae sul portale di Ateneo "Amministrazione trasparente" in ottemperanza al D.Lgs. 33/2013 e al D.Lgs. 97/2016.

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