

CURRICULUM VITAE

Emmanuel KAMMERER

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Research interests

Probability theory. Keywords: random planar maps, random trees, branching processes, Liouville quantum gravity, conformal loop ensembles.

Employment

Oct. 2025–... **Research Fellow** at Emmanuel College, Cambridge.

Education

2022–2025	PhD student at the École polytechnique under the supervision of Cyril Marzouk and Nicolas Curien.
2021–2022	<u>Research internship</u> under the supervision of Cyril Marzouk and Nicolas Curien.
2020–2021	Master 2 Probability and statistics at the institut mathématique d’Orsay (université Paris-Saclay), mention très bien. <u>Master 2 thesis</u> under the supervision of Jean-François Le Gall.
2019–2020	Master 1 of mathematics at the ENS, mention très bien. <u>Research internship</u> at the university of Warwick (UK) under the supervision of Nikos Zygouras.
2018–2019	Licence 3 (Bachelor) of mathematics at the ENS, mention très bien. <u>Bachelor thesis</u> written with Victor Dubach under the supervision of Thomas Budzinski.
2018–2022	Student at the ENS.
2018	Admitted to the École normale supérieure (Paris), section MPI (mathematics, physics and computer science), ranked 17 th .
2016–2018	Classes préparatoires MPSI and MP*, lycée Pasteur.
2016	Baccalauréat S (high school graduation), lycée Carnot, mention très bien.

Preprints

- The height of the infection tree, with Igor Kortchemski and Delphin Sénizergues. arXiv preprint.
- Scaling limit of first passage percolation geodesics on planar maps. arXiv preprint.
- Gaskets of $O(2)$ loop-decorated random planar maps. arXiv preprint.
- Scaling limit of trees with vertices of fixed degrees and heights, with Arthur Blanc-Renaudie. arXiv preprint.

Publications

- Distances on the CLE_4 , critical Liouville quantum gravity and $3/2$ -stable maps. To appear in *Probability and Mathematical Physics*.
- Uniform attachment with freezing, with Étienne Bellin, Arthur Blanc-Renaudie and Igor Kortchemski. *Annals of Applied Probability*, 35 (4), 2882 – 2922, (2025).
- Uniform attachment with freezing: Scaling limits, with Étienne Bellin, Arthur Blanc-Renaudie and Igor Kortchemski. To appear in the *Annales de l'Institut Henri Poincaré, Probabilités et Statistiques*.
- On large $3/2$ -stable maps. To appear in the *Annales de l'Institut Henri Poincaré, Probabilités et Statistiques*.

Talks

Mar. 2025	Journée cartes , Université Paris-Dauphine, Paris, France.
Mar. 2025	ALEA days , CIRM, Marseille, France.
Nov. 2024	Groupe de travail Probabilités, Théorie Ergodique et Systèmes Dynamiques , Université de Rouen, France.
Oct. 2024	(Not so) informal probability seminar , University of Vienna, Austria.
Jul. 2024	St-Flour probability summer school , Saint-Flour, France.
Jun. 2024	Séminaire du pôle probabilités , École polytechnique, Palaiseau, France.
Feb. 2024	Workshop in Statistical Mechanics , SwissMAP Research Station, Switzerland.
Feb. 2024	Probability seminar , Cambridge, UK.
Feb. 2024	Séminaire MODAL'X , Nanterre, France.
Jan. 2024	Probability seminar , Durham, UK.
Nov. 2023	SuPerGRandMa seminar , Orsay, France.
Jun. 2023	Journées de Probabilités , Angers, France.
Apr. 2023	PhD students seminar of the CMAP and CMLS , École polytechnique, Palaiseau, France.
Mar. 2023	PhD students working seminar of the LJLL , Jussieu, Paris, France.
Jan. 2023	Random Geometry workshop , CIRM, Marseille, France.

Referee

Electronic Journal of Probability

Responsibilities

2024–...	Co-organiser of Seed seminar of mathematics and physics.
2023–2024	Co-organiser of the PhD student seminar of the CMAP and the CMLS.
2023–2025	Representative of the teaching assistants in the department committee.

Teaching

2022–2025	Teaching assistant at the École polytechnique ($\sim 64\text{h}/\text{year}$). Tutorials in discrete mathematics (MAA103), Bachelor, first year (in English).
2021–2022	Oral examiner in mathematics in MP*, lycée Pasteur (50h).
2021	Teaching assistant in statistics for second year students in psychology, université Paris Cité (12h).
2018–2019	Oral examiner in mathematics in MPSI, lycée Pasteur (30h).

Popularisation of mathematics

2021–2023	Organiser of the Parimaths club. Parimaths is a mathematics club for high school students who enjoy mathematics. Sessions are organised each Saturday afternoon at the ENS in Paris.
2019–2025	Lectures for Parimaths.
2021–2025	Involved in Math.en.jeans: chairman at the annual conference and from 2022 to 2025 giving math problems to high-school students.

Hobbies

Piano, hiking in the mountains, running, cycling, swimming...