

Robin Stephenson

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Education and positions

Schools of Mathematics and Statistics

Lecturer in Applied Probability

Sheffield

feb. 2020 – current

Department of Statistics

Post-doctoral researcher

Oxford

jan. 2018 – jan. 2020

NYU Shanghai

Post-doctoral fellow

Shanghai

aug. 2016 – dec. 2017

Universität Zürich

Post-doc

Zürich

feb. 2015 – jul. 2016

Université Paris-Dauphine

PhD Student in probability

Paris

2011 – 2014

Student at École Normale Supérieure

Obtained degrees:

Paris

2007–2011

- 2010: Master's degree in probability (Université Paris-Sud, Mention Très Bien).
Completed courses: Stochastic Calculus (J.-F. Le Gall), Markov Processes (J.-F. Le Gall), Large Deviations (R. Cerf), Concentration Inequalities (P. Massart), Lévy Processes (J. Bertoin), Random Trees (T. Duquesne), Random Matrices (C. Donati-Martin).
- 2009: Agrégation de mathématiques: rank 17th
- 2008: Bachelor's degree in mathematics (Université Paris VII, Mention Très Bien)

Lycée Saint-Louis

Preparatory classes for entrance to Grandes Écoles, Mathematics-Physics

Paris

2005–2007

Admitted in École Polytechnique and École Normale Supérieure

Miscellaneous.....

Statistical Laboratory, University of Cambridge

Research internship under N. Berestycki.

Cambridge, UK

2009–2010 (4 months)

Research work

PhD Thesis: *Various aspects of random trees: from fragmentation trees to infinite planar maps*

Supervisors: Bénédicte Haas (Université Paris-Dauphine) and Grégory Miermont (ENS Lyon)

Publications:

- *General fragmentation trees*, published in Electronic Journal of Probability, 2013.
- *Scaling limits of k -ary growing trees*, published in Annale de l'Institut Henri Poincaré, 2015. Joint work with Bénédicte Haas.
- *Local convergence of large critical multi-type Galton-Watson trees and applications to random maps*, published in Journal of Theoretical Probability, 2018.
- *Local explosion in self-similar growth-fragmentation processes*, published in Electronic Communications in Probability, 2016. Joint work with Jean Bertoin.

- *Markov chains converging to Lamperti transform Markov Additive Processes*, published in *Stochastic Processes and Applications*, 2018. Joint work with Bénédicte Haas.
- *On the exponential functional of Markov Additive Processes, and applications to multi-type self-similar fragmentation processes and trees*, published in *ALEA*, 2018.
- *The scaling limit of a critical random directed graph*, arXiv:1905.05397, 2019. Joint work with Christina Goldschmidt.
- *Scaling limits of multi-type Markov branching trees*, 1912.07296, 2019. Joint work with Bénédicte Haas.

Teaching experience

Lecturer <i>3rd year information theory</i>	Oxford <i>Michaelmas term 2019</i>
Class tutor <i>3rd year applied probability</i>	Oxford <i>Hilary term 2019</i>
Recitations Instructor <i>1st year calculus</i>	Shanghai <i>Autumn 2016 and 2017</i>
Supervision of a master's thesis <i>Extremal processes</i>	Zürich <i>Spring 2016</i>
Organisation of a student seminar for master's students <i>Random graphs</i>	Zürich <i>Spring 2016</i>
Exercise classes <i>2nd and 3rd year probability</i>	Zürich <i>2015</i>
Exercise classes, as part of PhD <i>1st and 2nd year probability, 2nd year analysis</i>	Paris <i>2011–2014</i>
Oral interrogations ("khôlles") in mathematics <i>Weekly interrogations for students in Classe Préparatoire</i>	Paris <i>2008–2011</i>
○ 2010–2011: for second year students in Lycée Janson de Sailly	
○ 2008–2009: for first year students in Lycée Saint-Louis	

Administrative activities

Member of administrative committees <i>Rep for Stats postdocs at OxRSS and the Facilities committee of the department</i>	Oxford <i>2019</i>
Coordinator of "The Network" <i>Organising social and career-focused events aimed at post-doc researchers</i>	Oxford <i>2018-2019</i>
Organiser of a research-level reading group <i>Topic: Percolation in high-dimension</i>	Oxford <i>Michaelmas 2018</i>

Languages

French and English: mother tongues

German: lessons up until second year in Classe Préparatoire

Japanese: three years of lessons, good conversational level

Chinese, Italian: beginner

Other interests

Music: "Outstanding amateur" pianist, first prize winner of several international amateur piano competitions, including the International Competition for Outstanding Piano Amateurs in Paris and the Piano Bridges competition in Saint Petersburg. Also amateur violinist.