

Pascal Maillard

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Position

I am currently post-doctoral researcher at the Weizmann Institute of Science in Rehovot, Israel. My area of research is (mathematical) probability theory and more specifically, branching random walks and branching Brownian motion.

Education and academic positions

- 2012-present **Post-doctoral researcher** at the Faculty of Mathematics and Computer Science, Weizmann Institute of Science, Israel.
- 2009-12 **PhD in Mathematics** from **Université Pierre et Marie Curie, Paris (UPMC)**. Thesis title: *Branching Brownian motion with selection*. Supervisor: Zhan Shi. The university does not give grades for PhDs in Mathematics.
- 2008-09 **MSc in Mathematics** from **UPMC**, grade: **very good** (*très bien*, best possible)
- 2007-08 Exchange student (ERASMUS programme) in Mathematics and Computer Science at **Univerza v Ljubljani, Slovenia**, average grade: 10/10
- 2004-07 Studies of Computer Science and Mathematics at **Universität Karlsruhe (TH), Germany**. Degrees: *Vordiplom Informatik* and *Vordiplom Mathematik* (2006, both), grades: 1.1 and 1.1 (best possible: 1.0)
- 2004 German A levels (*Abitur*), grade: 1.0 (best possible)

Awards and Grants (selection)

Post-doctoral research grant by the Weizmann Institute of Science (2012-14)

Doctoral research grant by the French Ministry of Education (2009-12)

ERASMUS study exchange grant (2007-08)

Scholar of German National Academic Foundation (*Studienstiftung des dt. Volkes*, 2004-09)

Winner of German National Computer Science Contest (*Bundeswettbewerb Informatik*, 2004)

Finals at the Baden-Württemberg State Mathematics Contest (*Landeswettbewerb Mathematik Baden-Württemberg*, 2001, 2002)

Publications and Preprints

Branching Brownian motion with selection, PhD thesis, Université Pierre et Marie Curie, 2012.

Branching Brownian motion with selection of the N right-most particles: An approximate model, arXiv:1112.0266, 2011.

A characterisation of superposable random measures, arXiv:1102.1888, 2011.

The number of absorbed individuals in branching Brownian motion with a barrier, arXiv:1004.1426, 2010, *to be published in Ann. Inst. Henri Poincaré Probab. Stat.*

with Robert Görke, Christian Staudt and Dorothea Wagner, Modularity-driven clustering of dynamic graphs. In P. Festa (Ed.), *Experimental Algorithms* (Vol. 6049, pp. 436-448). Springer Berlin / Heidelberg, 2010.

Work Experience (selection)

Teaching

2012 **St Petersburg Summer School in Probability and Statistics**

Tutorials for Ofer Zeitouni's lecture

2009- UPMC

present Various tutorials for 1st to 3rd year students: Linear Algebra, Analysis, Probability, Complex Analysis

2006 **Universität Karlsruhe (TH)**

Tutorial: Informatik II (1st year)

IT

2007 **Universität Karlsruhe (TH), Institute of Theoretical Informatics, Research Assistant (3 months)**

Developed, analysed and implemented algorithms for dynamic graph clustering.

Developed and analysed an algorithm to sample power-law graphs without preferential attachment.

2004 **Lexware GmbH, Freiburg, Germany (internship), Software Development (6 weeks)**

Created a Microsoft Visual SourceSafe logging tool for internal use.

Participated in the development of financial software.

Synergistic Activities

Representative of the PhD students at LPMA in Paris (2011-2012)

Representative of the German National Academic Foundation student group in Paris (2010-2011)

Jury member at the *Mathematik-Olympiade*, Karlsruhe (2007)

Invited Talks at Seminars

Probability seminars at Technion and Weizmann Institute of Science, Israel,

Université de Versailles, Université Lyon 1 and Université Paris 13, France,

Universität Bonn, Germany and University of Cambridge, UK (all in 2012)

Groupe de Travail Processus Stochastiques et Matrices Aléatoires, LPMA (2011, 2012)

Informal Seminar, Department of Statistics, University of Oxford, UK (2010)

Conferences and Workshops

École d'été de Saint Flour (with talk) (2012)
St Petersburg Summer School in Probability and Statistics (taught tutorials) (2012)
Conférence ANR MEMEMO, Agay, France (with talk) (2012)
Colloque des Jeunes Probabilistes et Statisticiens, CIRM, Marseille, France (with talk) (2012)
BMS Summer School, Berlin, Germany (with talk) (2011)
Stochastic Processes and its Applications, Oaxaca, Mexico (2011)
Young European Probabilists Meeting, EURANDOM, Eindhoven, Netherlands (2011)
PIMS Summer School, University of Washington, USA (with talk) (2010)
Conférence ANR MEMEMO, CIRM, Marseille, France (with talk) (2010)

Languages

German, French (mother tongues)
English (very fluent)
Slovene (conversational)
Russian and Spanish (basic notions)