

Pascal Maillard

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Date of birth: 17th December 1985

Citizenship: German, French

Position

I am currently a 3rd year PhD student at the Université Pierre et Marie Curie (UPMC) in Paris, France. My research focuses on branching random walks and branching Brownian motion, in particular on the behaviour of these systems under (genetic) selection and the distribution of their extremal particles.

Education

- 2009- present **UPMC**
PhD student at the Laboratoire de Probabilités et Modèles Aléatoires (LPMA), UPMC, under the supervision of Zhan Shi. Thesis title: *Branching Brownian motion with selection*.
- 2008-09 **UPMC**
MSc in Mathematics (official title *Master 2 Mathématiques, Spécialité Probabilités et Applications, Mention Processus Stochastiques*), grade: **very good** (*très bien*, best possible)
- 2007-08 **Univerza v Ljubljani in Ljubljana, Slovenia**
Exchange student in Mathematics and Computer Science, ERASMUS grant, average grade: 10/10
- 2004-07 **Universität Karlsruhe (TH) – now called KIT – in Karlsruhe, Germany**
Studies of Computer Science and Mathematics, *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)

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

ERASMUS study exchange grant (2007-08)

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

Winner of the 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

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

2009- present **UPMC**
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 German National Academic Foundation student group in Paris (2010-2011)
Jury member at the *Mathematik-Olympiade*, Karlsruhe (2007)

Talks and Seminars

BMS Summer School, Berlin, Germany (2011)
Groupe de Travail Processus Stochastiques et Matrices Aléatoires, LPMA (2011)
Informal Seminar, Department of Statistics, University of Oxford (2010)
PIMS Summer School, University of Washington, USA (2010)
Conférence ANR MEMEMO, CIRM, Marseille, France (2010)
PhD students' seminar, LPMA (2010, 2011)

Conferences and Workshops

BMS Summer School, Berlin, Germany (2011)
SPA meeting, Oaxaca, Mexico (2011)
Young European Probabilists Meeting, EURANDOM, Eindhoven, Netherlands (2011)
PIMS Summer School, University of Washington, USA (2010)
Conférence ANR MEMEMO, CIRM, Marseille, France (2010)

Languages

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

References

Zhan Shi, PhD supervisor
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