

Curriculum Vitae

Alexander FRIBERGH
Université de Toulouse
Institut de Mathématiques de Toulouse
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Born February 12th, 1985
French and Swedish
Single

General Background

2012- **Chargé de recherche CNRS** at the Université de Toulouse
2009-2012 **Post-doc** as *Courant Instructor* at New York University
2006-2009 **PhD in mathematics**, under the supervision of Christophe Sabot (Université de Lyon 1), called *Marches aléatoires en milieux aléatoires et phénomènes de ralentissement* defended on June the 3rd 2009 at Université Lyon 1, in front of a jury composed of Stéphane Attal, Vincent Beffara, Gérard Ben Arous, Nina Gantert, Yueyun Hu, Pierre Mathieu and Christophe Sabot.
2005-2006 **Master 2 in probability, at the ENS Lyon**
Thesis under the supervision of Christophe Sabot (ENS Lyon), called *Marches anisotropiques sur un cluster de percolation*
Agrégation de mathématiques, rank 51e (competitive teaching test)
2004-2005 **Master 1 of mathematics**, at the ENS Lyon
Thesis under the supervision of Christophe Sabot (ENS Lyon), called *Marches aléatoires biaisées sur un cluster de percolation*
2003-2004 **License de mathématiques** (end of undergraduate study), at the ENS Lyon
Thesis under the supervision of Marc Arnaudon and Anthony Phan (Université de Poitiers), called *La tribu invariante d'un processus de Markov et applications aux diffusions*
2003-2007 **Student at the Ecole Normale Supérieure de Lyon (ENS de Lyon)**
2001-2003 **MPSI et MP*** at the lycée Kléber (Strasbourg)
2001 **Baccalauréat scientifique**

Publications

1. *On slowdown and speedup of transient random walks in random environment* (with N. Gantert and S. Popov). Probability Theory and Related Fields. Volume 147, Number 1/2, p.43 (2010).
2. *Biased random walks on a Galton-Watson tree with leaves* (with G. Ben Arous, N. Gantert and A. Hammond). Accepted at Annals of Probability, 49 pages (2011),
3. *The speed of a biased random walk on a percolation cluster at high density*. Ann. Probab. Volume 38, Number 5 (2010), 1717-1782.
4. *Transition phase for the speed of a biased random walk on a percolation cluster* (with A. Hammond). Preprint on ArXiv. (2011)
5. *Biased random walk in positive random conductances on Z^d* . Preprint on ArXiv. (2011)
6. *A proof of the Lyons-Pemantle-Peres monotonicity conjecture for high biases* (with G. Ben Arous and V. Sidoravicius) Preprint on ArXiv. (2011)
7. *Biased random walk on critical Galton-Watson trees conditioned to survive* (with D. Croydon and T. Kumagai) Preprint on ArXiv. (2012)

Talks

March 2012	invited speaker at <i>CLAPEM</i> in Vina del Mar (Chile)
January 2012	<i>Séminaire de probabilité</i> , Toulouse (France)
January 2012	invited speaker at <i>PASI</i> in Santiago (Chile) and Buenos Aires (Argentina),
June 2011	invited speaker at <i>S.P.A.</i> in Oaxaca (Mexico),
May 2011	<i>Probability seminar</i> ETH in Zurich (Switzerland),
May 2011	invited speaker at <i>Random Environments Conference</i> in Cornell,
September 2010	<i>Probability seminar</i> , University of Utah (USA)
April 2010	<i>Probability seminar</i> , Cornell (USA)
November 2009	<i>Probability seminar</i> , NYU (USA)
June 2009	<i>Séminaire de probabilité</i> , Grenoble (France)
June 2009	<i>Ecole d'été MEMEMO</i> , Aussois (France)
February 2009	<i>Probability Seminar</i> , Institut Mittag-Leffler (Sweden)
December 2008	<i>Séminaire de probabilité</i> , Jussieu, Paris (France)
August 2008	<i>First Workshop on stochastic modeling</i> , Riberão Preto (Brazil)
June 2008	<i>Séminaire de probabilité</i> , Toulouse (France)
May 2008	<i>Ecole d'été MEMEMO</i> , Plougonvelin (France)
February 2008	<i>Probability seminar</i> , NYU (USA)
October 2007	<i>Arbeitsgemeinschaft on percolation</i> , Oberwolfach (Germany)

Visits abroad

March, 11th to 21st, 2011	University of Kyoto (Japan) invited by Takashi Kumagai.
Janvier 15th to Avril 15th, 2009	<i>Institut Mittag-Leffler (Stockholm, Sweden)</i>
August 10th to September 20th, 2009	<i>Instituto de Matematica e estatistica (São Paulo, Brazil)</i> , invited by Serguei Popov
January 16th to February 2nd, 2008	<i>Courant Institute of Mathematical Science (New-York, USA)</i> , invited by Gérard Ben Arous
September 15th to December 15th, 2007	<i>Institut für Mathematische Statistik (Münster, Germany)</i> , invited by Nina Gantert

Teaching

2009 -	Courant Instructor at the New-York University, having taught Calculus 1, 2, 3 and Basic Probability
2006 - 2009	Teaching assistant at the ENS Lyon. in probability
2005 - 2007	Oral examinateur (colleur) at Lycée du Parc in Lyon