

Benjamin Graham

Personal Information

Nationality: British

Date of birth: 16 February 1982

Sex: Male

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Employment

2009—*École Normale Supérieure, Paris*

Postdoctoral fellowship funded by the Fondation Sciences Mathématiques de Paris.

2007—2009 *University of British Columbia, Vancouver*

Postdoctoral research and teaching fellow.

Education

2004—2007 *Fitzwilliam College, Cambridge*

PhD in probability with Professor Geoffrey Grimmett. Awarded a Smith–Knight essay prize and a college scholarship.

2000—2004 *St Edmund Hall, Oxford*

First class honours degree (four year MMath programme). First class in the honour moderations exam. Awarded a college Open Scholarship.

1993—2000 *JFS Comprehensive School, London*

A-Levels: Four 'A's: Maths, Further Maths, Physics and Chemistry.

Publications

Helffer-Sjstrand representation for conservative dynamics
with Thierry Bodineau

Accepted: Markov Processes and Related Fields, 16 pages

Sublinear variance for directed last passage percolation

Accepted: Journal of Theoretical Probability, 18 pages

Sharp thresholds for the random-cluster and Ising models
with Geoffrey Grimmett

Accepted: Annals of Applied Probability, 27 pages

Borel type bounds for the self-avoiding walk connective constant

Journal of Physics A: Mathematical and Theoretical 43:235001 (13 pp), 2010

Rate of relaxation for a mean-field zero-range process

Annals of Applied Probability, 19(2):497–520, 2009

Interacting Stochastic Systems

PhD Thesis, University of Cambridge, 2007

Influence and sharp-threshold theorems for monotonic measures
with Geoffrey Grimmett

Annals of Probability, 34(5):1726–1745, 2006

Random-current representation of the Blume-Capel model
with Geoffrey Grimmett

Journal of Statistical Physics, 125(2):283–316, 2006

SpeedwEyes: an eye-screening management system in diabetic care
with Stephen Corcoran

British Journal of Healthcare Computing and Information Management;
19(3):23-25, 2002

Teaching

2009 Taught UBC course Math 105 Integral Calculus with Applications to Commerce and Social Sciences.

2008 Teaching assistant for Geoffrey Grimmett's 2008 Probability on Graphs UBC summer school course.

2007 Attended a three day Skylight Instructional Skills Workshop focused on teaching Mathematics in Further Education.

2007 Taught UBC course Math 253 Multivariable Calculus.

2004—2007 Tutored Cambridge undergraduates in the following courses: Probability, Markov Chains, Statistics, and Applied Probability.

Talks

2010 University of Paris, MAP5

2009 École Normale Supérieure

2009 University of Oregon

2009 Random processes and systems conference, Kyoto University

2009 UBC probability seminar

2009 Arizona State University

2008 Fall AMS Western Section Meeting

2007 UBC probability seminar

2007 Cambridge probability seminar

Other experience

Organiser for the UBC Probability seminar series, 2008—2009.

Refereed papers for Probability Theory and Related Fields, the Annals of Probability and Stochastic Processes and their Applications.

Member of a college interview panels for Fitzwilliam College, Cambridge; responsible for assessing applications for admission to Cambridge.

Attended Summer Schools at the University of Swansea (2005), the University of British Columbia (2005, 2008 and 2009), Saint-Flour, France (2006), Charles University, Prague (2006) and the LMS Durham Symposium on Recent Developments in Random Walks (2007).

Programming experience in C, Python, Common Lisp and Maple.

Wrote programs to generate 620 000 lottery tickets purchased over 6 weeks for Saturday night ITV game show The Big Call, hosted by 'Dr' Neil Fox.