

Dr Stephen B. Connor

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Research Interests

Applied probability, coupling, stochastic stability, perfect simulation, mixing times, random walks on groups, cutoff phenomena.

Academic Positions and Qualifications

Senior Lecturer , Department of Mathematics, University of York	Oct 2014 –
Lecturer , Department of Mathematics, University of York	Oct 2008 – Sep 2014
Teaching and Research Fellow , Department of Statistics, University of Warwick	Jan 2007 – Sep 2008
Ph.D in Statistics , University of Warwick (supervisor: W.S. Kendall)	Oct 2003 – Oct 2007
Master of Mathematics and Statistics (First Class) , University of Warwick	Oct 1999 – Jul 2003

Publications

1. Bate, M.E. and S.B. Connor. *Mixing Time and Cutoff for a Random Walk on the Ring of Integers mod n* , to appear in *Bernoulli*
2. Connor, S.B. and W.S. Kendall. *Perfect simulation of $M/G/c$ queues*, *Advances in Applied Probability* 47(4) (2015) 1039–1063
3. Connor, S.B. *Optimal co-adapted coupling for a random walk on the hyper-complete-graph*, *Journal of Applied Probability* 50(4) (2013) 909–1216
4. Connor, S.B. *Separation and coupling cutoffs for tuples of independent Markov processes*, *Latin American Journal of Probability and Mathematical Statistics* 7 (2010) 65–77
5. Connor, S.B. and G. Fort. *State-dependent Foster-Lyapunov criteria for subgeometric convergence of Markov chains*, *Stochastic Processes and their Applications* 119(12) (2009) 4176–4193
6. Connor, S.B. and S. Jacka. *Optimal co-adapted coupling for the symmetric random walk on the hypercube*, *Journal of Applied Probability* 45(1) (2008) 703–713
7. Connor, S.B. *Perfect sampling*, *Encyclopedia of Statistics in Quality and Reliability*, Wiley (2007)
8. Connor, S.B. and W.S. Kendall. *Perfect simulation for a class of positive recurrent Markov chains*, *The Annals of Applied Probability* 17 (3) (2007) 781–808 (with correction, 1808–1810)

Grant Income

LMS Research in Pairs Grant - £500 – work with Dr R. Pymar (UCL)	Jun 2013
LMS Research Workshop Grant - £5,340 – <i>Developments in Coupling</i> workshop, York	Sep 2012
Nuffield Foundation Mathematics Undergraduate Research Bursary – £1,440 – <i>Mixing time of random walks on rings</i>	Jul 2012
EPSRC First Grant (Ref: EP/J009180/1) – £54,667 – <i>Probabilistic coupling: co-adaptedness, maximality and efficiency</i>	2012 – 2014
PhD funding from government of Chile – interdisciplinary research into Statistical Network Analysis	2014 – 2017

Selected Presentations

Invited speaker, <i>MCQMC</i> , Stanford	Aug 2016
Contributed talk, <i>38th Conference on Stochastic Processes and their Applications</i> , Oxford	Jul 2015
Invited speaker, <i>Aspects of random walks</i> workshop, Durham	Apr 2014
Research seminar, INRIA, Paris	Sep 2013
Contributed talk, <i>8th World Congress in Probability and Statistics</i> , Istanbul	Jul 2012
Research seminar, University of Iceland	Sep 2010
Research seminars, Universities of Bristol, Cork, Durham, Heriot-Watt, Imperial College London, Leeds, Liverpool, Nottingham, QMUL, Sheffield, Warwick	2006 – 2015
Contributed talk, <i>25th European Meeting of Statisticians</i> , Oslo	Jul 2005

Research Visits

University of Iceland	Jun 2014
INRIA, Paris	Sep 2013
University of Warwick	Feb 2013
University of Warwick	Feb 2012
University of Iceland	Sep 2010
ENST, Paris	Oct 2006
University College Cork	Mar 2006

Other Current Professional Activities

STEM Ambassador	2013 –
Schools Liaison and Widening Participation Officer, Department of Mathematics, York	2013 –
Deputy Chair of Departmental Teaching Committee, York	2012 –
Lecturer of the <i>Applied Stochastic Processes</i> course for the Academy for PhD Training in Statistics (APTS)	2009 –

Membership of Professional Organisations

Member of the London Mathematical Society
Fellow of the Higher Education Academy
Member of the Bernoulli Society
Member of the British Science Association