

MARIA DEIJFEN

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Research interests

Discrete probability theory with particular emphasis on spatial models, random graphs and network modelling.

Education (at Stockholm University=SU)

Jan 2000: Basic academic exam (magisterexamen) in mathematical statistics.

Nov 2001: Licentiate degree in mathematical statistics.

Jan 2004: PhD in mathematical statistics.

Sept 2008: Docent in mathematical statistics.

Employments

1999 - 2004: Graduate studentship in mathematical statistics at SU.

2004-2006: Postdoc positions at the Mittag-Leffler Institute, Vrije Universiteit Amsterdam, Chalmers and Eurandom/TU Delft.

2006 - 2010: Junior research position funded by The Swedish Research Council, placed at the Department of Mathematics, SU, with tenure track.

2010-2015: Associate professor (universitetslektor) in mathematical statistics, SU.

2015 - present: Professor in mathematical statistics, SU.

Parental leave

26 months during 2012-2019.

Teaching and administration (at the Department of Mathematics, SU)

2002 – 2004: Work with public relations, including contacts with media, schools and the general community.

2002 – 2004: Work in a project for increasing the recruitment of students from groups under-represented in higher education.

2006 - present: Lecturer and examiner for the courses Probability theory I, Probability theory II, Statistical analysis, Stochastic processes I, Random graph models of complex networks, Statistics for physicists.

2008 - 2011: Initiated and managed an alumni group at the department.

2011-present: Director of graduate studies in mathematical statistics.

2018: Teacher in the *Research ethics* block for PhD students at the Faculty of Science.

Supervision (at the Department of Mathematics, SU)

PhD supervision: Mathias Lindholm (PhD Jan 2009, co-supervisor), Fabio Lopes (PhD Sept 2014), Sebastian Rosengren (2015 – present).

Postdoc supervision: Timo Hirscher (2017-present).

Supervisor of 2 master theses and 21 bachelor theses.

Research grants

2006: Junior research position, The Swedish Research Council, 3.2 Mkr.

2009: Project grant from The Bank of Sweden Tercentenary Foundation, with Tom Britton (PI) and Fredrik Liljeros, 2.7 Mkr.

2009: Strategic research grant from the Faculty of Science, SU, 1.2 Mkr.

2010: Project grant from The Swedish Research Council, 1.5 Mkr.
2012: Project grant from The Bank of Sweden Tercentenary Foundation, with Tom Britton (PI) and Fredrik Liljeros, 2.8 Mkr.
2014: Project grant from the Swedish Research Council, 2.8 Mkr.

Conference talks

Invited speaker at 40+ international workshops/conferences, including:
European meeting of statisticians (Oslo 2005 and Helsinki 2017).
New directions in random spatial processes (Montreal 2009).
Winter meeting of the Canadian mathematical society (Toronto 2011).
Nordic congress of mathematicians (Lund 2013 and Stockholm 2016).
Dynamic networks (Cambridge 2016).
Random processes in discrete structures (Warwick 2016).
Networks: structure and function (Oberwohlfach 2017).
Stochastic processes and their applications (Kyoto 2010 and Gothenburg 2018, plenary speaker).

Mini-courses

Summer school on random geometry (Reykjavik 2011), main lecturer.
Dutch annual stochastics meeting (Lunteren 2013), main lecturer.
Information diffusion on random networks (Eindhoven 2019), keynote tutorial.

Long-term visits

March - May 2007: IPAM (UCLA), Los Angeles.
Nov 2008: Institute Henri Poincare, Paris.
Spring 2009: Institute Mittag-Leffler.
Sept 2009: Collegium Budapest.
Feb 2010: Microsoft Research (Theory Group), Seattle.
March 2015: Isaac Newton Institute, Cambridge.

Organizational work

2007: Organizer of the one-week workshop “Random graphs and complex networks” at Eurandom (jointly with Remco van der Hofstad).
2009: Organizer of an invited session on stochastic networks at the European meeting of statisticians in Toulouse.
2010: Organizer of the one-week workshop “Networks: modeling and applications” in Öregrund (jointly with Tom Britton and Fredrik Liljeros).
2015: Organizer of the four-day workshop “Dynamical processes on networks”, in Sigtuna (jointly with Tom Britton and Fredrik Liljeros).
2017: Organizer of an invited session on random graphs at the European meeting of statisticians in Helsinki.
2018: Organizer of an invited session on processes on random graphs at Stochastic processes and their applications in Gothenburg.

Referee assignments

Referee for 4 academic positions and 2 applications for promotion to associate professor.
Member of the examination board at 9 PhD defences and discussion leader at the licentiate presentation of Emilio Bergroth (Chalmers 2011).
Member of the evaluation panel in mathematics at the Swedish Research Council (2011, 2012, 2013).
Associate editor for the Journal of Applied Probability (2016-).