

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

14 months during 2012-2014, 20% 2015-present.

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.

Selected and recent conference talks (invited)

European Meeting of Statisticians (Oslo 2005)
New directions in random spatial processes (Montreal 2009)
Workshop on interacting particle system in honor of Tom Liggett's 65th birthday (Beijing 2009)
Focus group on large graphs and complex networks (Budapest 2009)
Dynamic random environments (Eindhoven 2009)
10th Vilnius conference on probability and mathematical statistics (Vilnius 2010)
Women in probability (Munich 2010)
Stochastic processes and their applications (Kyoto 2010)
Random graphs and the brain (Eindhoven 2011)
16th Applied probability society conference (Stockholm 2011)
Networks: stochastic models for populations and epidemics (Edinburgh 2011)
Winter meeting of the Canadian mathematical society (Toronto 2011)
Nordic congress of mathematicians (Lund 2013)
Random discrete geometry (Varberg 2013)
Dutch annual stochastics meeting (Lunteren 2013)
Mark Kac meeting (Utrecht 2014)
Recent developments in probability (Bath 2015)
Dynamical networks and network dynamics (Edinburgh 2016)
Nordic congress of mathematicians (Stockholm 2016)
Women in probability (Munich 2016)
Random processes in discrete structures (Warwick 2016)
Future directions in network mathematics (London 2016)
Dynamic networks (Cambridge 2016)
European meeting of statisticians (Helsinki 2017)
Randomness and graphs: processes and structure (Eurandom 2017)
Ingenuity and integrability in statistical mechanics (Amsterdam 2017)
Networks: structure and function (Oberwohlfach 2017)
Stochastic processes and their applications (Gothenburg 2018, plenary speaker)

Mini-course: Summer school on random geometry (Reykjavik) 2011, main lecturer.

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

2001 - 2004: Organizer of the seminar series in mathematical statistics at SU.
2002: Member of the organizing committee for the Nordic conference on mathematical statistics in Stockholm.
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 a junior research position in discrete probability at Chalmers (2006) and positions as senior lecturer at Chalmers (2012) and in Luleå (2012).

Member of the examination board at the PhD defence of Niclas Petersson (Uppsala 2009), Andreas Lindell (Stockholm 2009), Marcus Warfheimer (Chalmers 2010), Anders Södergren (Uppsala 2010), Thorbjörn Gudmundsson (KTH 2015), Erik Duse (KTH 2015), Katja Gabrysch (Uppsala 2016), Markus Jonsson (Västerås 2017).

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).

Referee for Johan Tykessons application for promotion to associate professor (Chalmers 2017).

Referee for Cecilia Holmgrens application for promotion to senior lecturer (Uppsala 2018).

Referee for journals in probability and discrete mathematics, around 5 assignments per year.

Associate editor for the Journal of Applied Probability (2016-).