

CV for Petter Mostad

Professor (“biträdande professor”) in mathematical statistics at Chalmers University, Sweden. Born 10 December 1964. Obtained PhD in 1991 from Princeton University with the title “Bounded K-theory of the Bruhat-Tits building for the special linear group over the p-adics with application to the assembly map”.

Employment

2018 – present Professor in Mathematical Statistics, Chalmers University.

2012 – 2016 Director of studies of mathematical statistics, Chalmers University and Gothenburg University.

2012 – 2015 Amanuensis II (20%) at the Norwegian University of Life Sciences.

2007 – 2017 Associate Professor in Mathematical Statistics, Chalmers University.

2006 – 2007 Senior Lecturer, Chalmers University.

2005 – 2006 Senior Lecturer (50%), University of Oslo.

2005 – 2006 Post-Doc (50%), University of Oslo.

2000 – 2005 Visiting Researcher, Chalmers University.

1998 – 2000 Chief Research Scientist, Norwegian Computing Centre.

1992 – 1998 Researcher, Norwegian Computing Centre.

1991 – 1992 Military service at the Norwegian Defense Research Institute.

Research

My primary interests today are Bayesian statistics and Forensic statistics. As my original background is in pure mathematics, it was natural for me to be interested in foundational issues when I started working in applied statistics. In a wide range of application areas, including oil exploration, bioinformatics, and forensics, I have seen how a Bayesian framework resolves several fundamental problems present in the classical framework. I have also worked on teaching material (including an R package) for courses in Bayesian statistics on all levels. My theoretical focus of interest in Bayesian statistics is primarily model selection.

During the last few years I have worked on problems related to machine learning, partially supported by a VR-project. I have worked on graphical models, and more recently on neural networks and AI-related issues, focusing on computational methods within a Bayesian framework.

Forensic statistics, in particular relationship inference based on DNA, remains an important area of interest. Together with colleagues, I have written a program (Familias) for statistical relationship computations that is currently among the most used by DNA-labs worldwide. We have also written a book on the subject. Additionally, I have worked on a wide range of forensic application areas, such as medical age assessment, DNA profile matching, and syndromic surveillance.

Bibliometry

Google Scholar profile: scholar.google.se/citations?user=UJBfGGcAAAAJ&hl=en

Bibliometrics in Google Scholar as of 2019-07-08:

	All	Since 2014
Citations	1382	542
h-index	18	13
i10-index	27	15

Teaching and supervision

I am currently responsible for the master-level course “MVE187/MSA101 Computational Methods for Bayesian Statistics” and the bachelor-level course “MVE550 Stochastic processes and Bayesian Inference”. I am also one of three teachers in the bachelor-level course “TMS150 Statistical data processing and simulation”.

Previously, I have been responsible for more than 18 different courses, ranging from introductory courses to PhD-level courses. The courses have been given at Chalmers University, Gothenburg University, University of Oslo, and the Norwegian University of Life Sciences.

I have been a main supervisor of 5 PhD students and a co-supervisor of more than 5 PhD students. So far, under my supervision, two students have completed their PhDs and three students have completed their masters degrees.

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