

Måns Magnusson, PhD, Docent

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Current position

2020.08 - **Uppsala University**, Uppsala, Sverige
Department of Statistics
Assistant professor

Areas of interest

Probabilistic Machine Learning • Bayesian Statistics • Text analysis • Text-as-Data • Computational Social Science • Legal AI

Working Experience

2020.08 - **Uppsala University**, Uppsala, Sweden
Department of Statistics
Assistant Professor

2018.08 - **Aalto University**, Helsinki, Finland
2020.07 Probabilistic machine learning group
Postdoctoral researcher

2012.10-2018.07 **Linköping University**, Linköping, Sweden
Statistics and Machine learning lab,
Department of Computer and Information Science
Ph.D. Student in Statistics

2011.05-2012.09 **Swedish national public health agency**, Stockholm, Sweden
Statistician

2008.05-2011.04 **Swedish agency for crime prevention**, Stockholm, Sweden
Statistician

2007.08-2008.04 **Swedish national agency for education**, Stockholm, Sweden
Statistician

LEAVE OF ABSENCE

2015.08-
2016.07

Parental leave

Expert Assignments

2021.05 -

Demoskop Advisory Board, Stockholm
Board member

2019.9 - 2020.9

The Storytel Academia Council, Stockholm
Board member

2018.09-
2019.03

The Royal Library Data Lab, Stockholm
Member of reference group on The Swedish Royal Library's data lab.

2016.04

The Swedish National Board of Health and Welfare, Stockholm
Methods expert in estimating hidden populations regarding people selling sex.

2014.12-
2015.03

Swedish agency for crime prevention, Expert group on recidivism statistics, Stockholm
Methods expert on recidivism statistics and analysis of recidivism.

Education

2022

DOCENT in Statistics, Uppsala University, Uppsala, Sweden

2018

PHD in Statistics, Linköping University, Linköping, Sweden

2012

MSC in Statistics, Stockholm University, Stockholm, Sweden

2011

MSC in Economic History, Stockholm University, Stockholm, Sweden

2009

BACHELOR in Statistics, Stockholm University, Stockholm, Sweden

2000

UPPER SECONDARY DIPLOMA in Natural Science, Södra Latins Gymnasium, Stockholm, Sweden

RESEARCH VISITS

2016.08 - 2016.12, Cornell University, Ithaca, NY, USA

2017.04, Central University of Economics and Finance, Beijing, China.

Grants

2023

AI4Research, Uppsala university
One year sabbathical

2022

Esseens Foundation, Uppsala Sweden,
Travel grant
Amount: 28kkkr

2022

Nuffield Foundation, United Kingdom,
Should I Go to Court? Improving Access to Justice Using Artificial Intelligence
Principal investigator (PI): Felix Steffek, Cambridge University
My Role: part of the research group with focus in the machine learning parts Amount: 0.85 full-time-equivalents (FTE) for 2 years

- 2022 **Lars Salviusföreningen**, Sweden,
Botten Ada — en ny typ av sammanvägd opinionsmätning baserad på statistisk forskning
Principal investigator (PI): Jens Finnäs, Newsworthy
Amount: 0.1m SEK
My Role: co-principal investigator working with the statistical models
- 2022 **Vetenskapsrådet (Swedish Research Council)**, Sweden,
Swedish Interdisciplinary School in Computational Social Science (SISCSS)
Principal investigator (PI): Jacob Habinek
Amount: 3.1m SEK
My Role: co-principal investigator/teacher of graduate courses
- 2022 **Vetenskapsrådet (Swedish Research Council)**, Sweden,
Establishment grant: Data Science *Improving Probabilistic Programming generalizability*
Principal investigator (PI): Måns Magnusson
Amount: 3.1m SEK
- 2022 **Riksbankens Jubileumsfond**, Sweden,
Swedish Riksdag 1867–2022: An Ecosystem of Linked Open Data
Principal investigator (PI): Dr. Fredrik Norén, Umeå university
Amount: 5.3m SEK
My Role: co-principal investigator
- 2022 **Länsförsäkrings Forskningsfond**, Sweden,
AI-based language models and active learning with application in crime statistics
Principal investigator (PI): Måns Magnusson
Amount: 1.5m SEK
- 2020 **Academy of Finland**, Finland,
*Text-as-Data in Statistics:
Theory, Methods and Applications*
Main applicant/PI
Amount: Three year fully funded postdoctoral research
Declined the grant due to acceptance of assistant professorship at Uppsala University
- 2018 **Vetenskapsrådet (Swedish Research Council)**, Sweden,
*Welfare State Analytics. Text Mining and
Modeling Swedish Politics, Media & Culture, 1945-1989*
Main applicant: prof. Pelle Snickars, Umeå university
Amount: 22.6m SEK
My Role: 25% funded as for research in Probabilistic models for textual data.
- 2018 **Vetenskapsrådet (Swedish Research Council)**, Sweden,
Mining for meaning: The dynamic of the public migration discourse
Main applicant: assoc. prof. Marc Keuchnigg, Linköping university
Amount: 17.6m SEK
My Role: 40% funded as for research in Probabilistic models for textual data.
- 2016 **Vinnova**, Sweden, VINN verifikation 2016-02141 Marple: The Story Sniffer, together with Jens Finnäs, J++ Stockholm
Funding on work with digital watchdogging using statistical methods
Amount: Up to € 200 000, but only used a small part
My Role: Co-PI, Responsible for the automated data analysis
- 2016 **Diskrimineringsombudsmannen**, Sweden ,
together with Karim Jebari, Institute for Future studies, Stockholm

Study possibilities of equality statistics
€ 80 000
My Role: Co-PI, Statistician in the project

2016 **Google digital news initiative**
Marple: The Story Sniffer, together with Jens Finnäs, J++ Stockholm
Funding on work with digital watchdogging using statistical methods
Amount: € 50 000
My Role: Co-PI, Responsible for the automated data analysis

Honors

2023 **Member of the Swedish Young Academy**

2023 **Statistician of the year 2022**, Statistikfrämjandet, joint with Jens Finnäs and Jonas Wallin
Motivation: This year's statistics promoters are a group of statisticians and data journalists whose advanced statistical model has shown accurate forecasts ahead of the 2022 parliamentary election. The model is based on a weighting of the last 20 years' opinion polls and election results, and uses a Bayesian model in combination with computer-intensive methods to answer the question "Who would win the parliamentary election if there were an election today?"
Their method has attracted a lot of attention and is a good example of how advanced statistics can contribute to the benefit of society.

2020 **Best News site of the year 2020**
Newsworthy was awarded top 5 best news agencies in Sweden by IDG.se

2020 **Best Journalistic Take 2020**
Newsworthy was shortlisted for the work with Sveriges Natur – Klimatprognosen by Sveriges Tidsskrifter

2019 **The Cramér Prize for best thesis in Statistics, defended in Sweden 2018**
The most prestigious PhD prize in Statistics in Sweden

2018 **Top 10% of NIPS reviewers**

2018 **Data Journalism Awards**
Newsworthy was shortlisted for *The JSK Fellowships award for innovation in data journalism*

Service to the profession

REVIEWING

2023 *Law, Probability & Risk*
Annals of Applied Statistics

2022 *Computational Statistics*
Workshop: Digital Parliamentary Data in Action

2021 *ICML 2021*
NeurIPS 2021
EMNLP 2021
AISTATS 2022

Journal of Digital Social Research

2020	<i>ICML 2020</i> <i>NeurIPS 2020</i> <i>EMNLP 2020</i> <i>Mathematical Psychology</i>
2019	<i>NeurIPS 2019</i> <i>AISTATS 2020</i> <i>ICML 2019</i> <i>Sage Open</i> <i>IEEE Signal Processing Letters</i>
2018	<i>NeurIPS 2018</i> (Awarded top 10% best reviewer) <i>Econometrics and Statistics</i> <i>Law, Probability & Risk</i>

ORGANIZATIONS

2021 -	<i>Stan</i> Developer
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CONFERENCES AND EVENTS

2022	Program committee member Workshop: Digital Parliamentary Data in Action
2019	Workshop on Computational text analysis in the Social Sciences Linköping University Organization committee
2018	StanCon Helsinki Aalto University Organization committee
2017	First Topic Model Symposium in Sweden The Royal Library of Sweden Main organizer 40 attendees
2012-2016	Stockholm R useR group Main organizer, founder 1000 members 20 meetups

EDUCATIONAL ADMINISTRATIVE DUTIES

2021 -	Department of Statistics, Uppsala University Supplementary board member
2019 -	Board for Masters Program in Computational Social Science, Linköping University Board member with focus on Statistics
2021 - 2022	Development group for the Masters Program in Statistics, Uppsala University
2019,2020	