

Måns Magnusson, PhD, Docent

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Current position

2024.08 - **Uppsala University**, Uppsala, Sverige
Department of Statistics
Associate professor

Areas of interest

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

Working Experience

2024.08 - **Uppsala University**, Uppsala, Sweden
Department of Statistics
Associate Professor

2020.08 - **Uppsala University**, Uppsala, Sweden
2024.07 Department of Statistics
Assistant Professor

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

2012.10- **Linköping University**, Linköping, Sweden
2018.07 *Ph.D. Student in Statistics*

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

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

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

LEAVE OF ABSENCE

2018.07 **Parental leave**
2015.08- **Parental leave**
2016.07

Expert Assignments

2023.12 - **The Expert Group on Public Economics (ESO)**, The Swedish Ministry of Finance, Stockholm
Expert

2023 - **Svenska Riksdagsdebatter (SweDeb)**, Umeå Universitet, Umeå
Referensgruppsledamot

2021.05 - **Demoskop Advisory Board**, Stockholm
Board member

2019.9 - 2020.9 **The Storytel Academia Council**, Stockholm
Board member

2018.09- **The Royal Library Data Lab**, Stockholm
2019.03 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- **Swedish agency for crime prevention**, Expert group on recidivism statistics, Stockholm
2015.03 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

RESEARCH VISITS

2023.11 AALTO UNIVERSITY, Helsinki, Finland
2017.04 CENTRAL UNIVERSITY OF ECONOMICS AND FINANCE, Beijing, China.
2016.08 - CORNELL UNIVERSITY, Ithaca, NY, USA
2016.12

Grants

2023 **AI4Research**, Uppsala university
One year sabbathical

2022 **Esseens Foundation**, Uppsala Sweden,
Travel grant
Amount: 28kkr

- 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 **Länsförsäkringars 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

2024

ELLIS - the European Laboratory for Learning and Intelligent Systems

Member

2024

RiFo - Sällskapet riksdagsledamöter och forskare

Substitute Member

2024

Sweden-Korea education, research, innovation collaboration

The Science Diplomacy Academy Programme - Academic programme for future scientific leaders

2023

The Swedish Young Academy

Academy Member

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

Top 33% of ICML reviewers

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

- 2024 *Digital Parliamentary Data in Action (DiPaDA 2024)*
Nature Humanities and Social Sciences Communications
Annals of Applied Statistics
NeurIPS Dataset and Benchmarks
Law, Probability & Risk
- 2023 *Law, Probability & Risk*
Annals of Applied Statistics
Journal of Computational and Graphical 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 *ICML 2020*
NeurIPS 2020
EMNLP 2020
Mathematical Psychology
- 2019 *NeurIPS 2019*
AISTATS 2020
ICML 2019
Sage Open
IEEE Signal Processing Letters
- 2018 *NeurIPS 2018 (Awarded top 10% best reviewer)*
Econometrics and Statistics
Law, Probability & Risk

ORGANIZATIONS

- 2021 - *Stan*
Developer

CONFERENCES AND EVENTS

- 2024 **Interdisciplinary workshop on Applied Bayesian Data Analysis with Stan**
Uppsala University University
Organization committee
- 2024 **Swedish Conference on Computational Social Science**
Uppsala University
Organization committee

2023 **Co-Organizer**
Uppsala University, CLARIN-ERIC, Malmö University and The Swedish Parliament
Workshop on current research on the Swedish parliamentary proceedings

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

2024 - **Leadership Board for the Excellence centre in Computational Social Science, Linköping University**
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 **Masters program in Machine Learning and Data Mining (Macadamia), Aalto University**
Screened international applicants to Aalto university's largest masters program

2015-2016 **Computer Science Programming Didactic group, Linköping University**
Joint discussion on general programming didactics at Linköping University