

# Docent application

## I: Appendices

Olof Mogren

November 2025

## I. Appendices

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To Whom It May Concern

Stockholm, 2025-11-03

## Certificate of Supervision

This is to certify that Olof Mogren supervised the doctoral student Edvin Listo Zec, date of birth 1992-06-25, at KTH Royal Institute of Technology.

Olof Mogren served as the doctoral student's assistant supervisor from admission 2021-03-01 until the doctoral student's graduation (Degree of Doctor) on 2025-02-11.

For any additional information, please do not hesitate to contact us.

A handwritten signature in black ink, appearing to read "Emanuel Borg".

Kind regards,

Emanuel Borg  
Group Manager for Doctoral Education Support  
KTH Royal Institute of Technology  
EECS University Administration  
School's Office of Student Affairs

Phone: +46 8 790 43 26  
Email: [doctoral-education-support@eeecs.kth.se](mailto:doctoral-education-support@eeecs.kth.se)

10 november 2025



LUNDS  
UNIVERSITET

Matematikcentrum  
Matematisk statistik

Intyg: handledning av doktorand

Härmed intygas att Olof Mogren är biträdande handledare till doktoranden John Martinsson, 910228-5237, från antagningsdatum 2022-02-07. Olof Mogren kommer att fortsätta som biträdande handledare till och med John Martinssons disputation.

Med Vänlig Hälsning

A blue ink signature of Maria Sandsten.

Maria Sandsten  
Professor i matematisk statistik  
Huvudhandledare

### I.3. English translation of certificate of supervision - LTH

(Please see the previous page for the original signed document from Lund University.)

*Certificate: Supervision of doctoral student*

*This is to certify that Olof Mogren is the assistant supervisor for the doctoral student John Martinsson, 910228-5237, from the admission date of 2022-02-07. Olof Mogren will continue to serve as assistant supervisor up to and including John Martinsson's public doctoral defence.*

*Sincerely,*

*Maria Sandsten  
Professor in Mathematical Statistics  
Principal Supervisor*



## *Course certificate*

9 April 2024

LUND'S UNIVERSITET  
Lunds Tekniska Högskola

*Olof Mogren*  
800419-6633

has successfully completed

*Readership Course (GB\_S91)*  
(*Docentkurs*)

*Spring 2024*

The course corresponds to 3 weeks of full-time work within the qualifying programme in teaching and learning in higher education at LTH.

### *Course aim*

The aim of the course is to prepare a future reader for the functions of research supervisor, researcher, and faculty examiner/member of examining committee.

### *Content and instruction*

The course includes components on the formal aspects of research supervision, the processes of research supervision, development of third-cycle studies, academic conduct, good scholarship, development of research teams, and examination in third-cycle studies.

The course consists of lectures, group discussions and written assignments reported individually and in groups.

### *Learning outcomes*

For a Pass on the course, participants shall demonstrate knowledge of the models and theories applicable to analysis of third-cycle studies at LTH; demonstrate knowledge of the procedures and principles for appointing readers at LTH; demonstrate knowledge of the regulations and ethical principles governing third-cycle studies and their application at LTH and Lund University; be able to analyse and develop aspects of third-cycle studies and research supervision at LTH, such as supervision and planning of third-cycle studies; be able to analyse and develop examination of third-cycle studies at LTH and be able to identify risk areas and act on the principles of academic conduct in third-cycle studies.

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Anders Ahlberg  
Senior lecturer, LTH

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Michael Cimbritz  
Senior lecturer, LTH



CHALMERS TEKNISKA HÖGSKOLA | CHALMERS UNIVERSITY OF TECHNOLOGY

## TEKNOLOGIE DOKTORSEXAMEN i Data- och informationsteknik

*DEGREE OF DOCTOR OF PHILOSOPHY  
in Computer Science and Engineering*

Olof Mogren

19800419-6633

Göteborg den 31 maj 2018  
*Gothenburg 31 May 2018*

Susanne Rudeke

Examenshandläggare  
*Officer of Degree*

Stefan Bengtsson

Rektor  
*President*

**Olof Mogren**

Namn/Name

**19800419-6633**

Personnummer/Personal identity number

Teknologie Doktorsexamen i Data- och informationsteknik

Degree of Doctor of Philosophy in Computer Science and Engineering

Examinator/Examiner: Professor David Sands

Huvudhandledare/Dissertation adviser: Doktor Richard Johansson

Betygsnämndens ordförande/Chairman of the committee: Professor Hercules Dalianis

Kurs Course	Högskolepoäng Credits	Betyg Grade	Datum Date
JT Schwartz Int School for Scientific Research on Data mining 6,0 and modelling of complex techno-socio-economic systems - Messina, Italien <i>JT Schwartz Int School for Scientific Research on Data mining and modelling of complex techno-socio-economic systems - Messina, Italien</i>	6,0	Godkänd <sup>1</sup> Pass	2012-07-21
Introduktionsdag för doktorander <i>General Introduction for Doctoral Students</i>	0,0	Godkänd <sup>1</sup> Pass	2013-05-07
2013 International Summer School on Trends in Computing, 3,0 Tarragona, Spanien <i>2013 International Summer School on Trends in Computing, Tarragona, Spanien</i>	3,0	Godkänd <sup>1</sup> Pass	2013-06-26
Boosting <i>Boosting</i>	7,5	Godkänd <sup>1</sup> Pass	2013-12-18
Teaching, learning and evaluation <i>Teaching, Learning and Evaluation</i>	3,0	Godkänd <sup>1</sup> Pass	2014-06-25
Forskningsetik och hållbar utveckling <i>Research Ethics and Sustainable Development</i>	3,0	Godkänd <sup>1</sup> Pass	2014-11-24
Probabilistic graphical models <i>Probabilistic graphical models</i>	7,5	Godkänd <sup>1</sup> Pass	2015-06-02
Machine Learning Reading Course <i>Machine Learning Reading Course</i>	4,5	Godkänd <sup>1</sup> Pass	2015-06-09
Deep Learning Summer School, Montreal 2015 <i>Deep Learning Summer School, Montreal 2015</i>	4,5	Godkänd <sup>1</sup> Pass	2015-08-12
Licentiatuppsats <i>Licentiate thesis</i>		Godkänd <sup>1</sup> Pass	2015-11-20
Deep learning <i>Deep learning</i>	7,5	Godkänd <sup>1</sup> Pass	2016-06-17
(FDAT085) Frontiers of security research <i>(FDAT085) Frontiers of security research</i>	7,5	Godkänd <sup>1</sup> Pass	2017-06-08
Läskurs i reinforcement learning <i>Self-study course in reinforcement learning</i>	7,5	Godkänd <sup>1</sup> Pass	2018-03-29

Kurs <i>Course</i>	Högskolepoäng <i>Credits</i>	Betyg <i>Grade</i>	Datum <i>Date</i>
Doktorsavhandling <i>Doctoral thesis</i>		Godkänd <sup>1</sup> <i>Pass</i>	2018-03-23
Representation learning for natural language <i>Representation learning for natural language</i>			

Datum för avslutade studier: den 29 mars 2018

*Date of completed studies: 29 March 2018*

Noter/*Notes*

1 Betygsskala: Godkänd (G)  
*Grading scale: Pass (G)*

**To the Docent Committee**

LTH, Faculty of Engineering  
Lund University

**Subject: Letter of Support for Dr. Olof Mogren's Docent Application**

To whom it may concern,

It is with great pleasure and without reservation that I write this letter to wholeheartedly recommend Dr. Olof Mogren for the title of Docent in applied mathematics at LTH, Lund University. As Head of the Department of Computer Science at RISE Research Institutes of Sweden, I have had the privilege of witnessing Dr. Mogren's exceptional development throughout his entire tenure at our institute.

Since completing his PhD, Olof has established a distinct and highly relevant research agenda at the intersection of artificial intelligence and environmental science. He has demonstrated remarkable independence and scientific vision, successfully securing over 20 MSEK in competitive external funding. This has enabled him to build and lead his own research team, the RISE Deep Learning Research Group, which has become a vital part of our department's strategic focus. His work is a cornerstone of our research agenda, and he is one of the key research leaders within our national Center for Applied AI.

Dr. Mogren's research portfolio is characterized by both methodological innovation and significant societal impact. His contributions span several critical areas, including environmental soundscape analysis, federated learning for decentralized data, and computer vision for Earth observation. This body of work, comprising over 40 peer-reviewed papers and more than 1990 citations, clearly demonstrates a research production and impact that corresponds to more than an additional doctoral thesis. His leadership extends beyond his own group; he is a co-founder of the influential Climate AI Nordics network and plays a leading role in the AI work within the national CLIMES research centre. This ability to initiate and lead large-scale collaborations is a testament to his standing in the research community.

In addition to his research excellence, Dr. Mogren has proven to be an outstanding supervisor and educator. He has expertly guided PhD students, including Edvin Listo Zec to a successful defense at KTH and John Martinsson in an ongoing, promising collaboration with Professor Maria Sandsten at LTH. His mentorship of over 20 MSc students further showcases his commitment to fostering the next generation of researchers. His pedagogical skills are also evident in his curriculum development for courses at Uppsala University and his frequent dissemination of complex topics to the public through national media appearances and a TEDx talk.

Olof's ambition to become a Docent at LTH is a natural and welcome step in his career trajectory. His existing collaboration with Professor Sandsten is already a model of the interdisciplinary synergy that is crucial for tackling complex societal challenges. Granting him the title of Docent would formalize and strengthen this bond, empowering him to further integrate into the rich academic environment at LTH and Lund University, initiate new projects, and co-supervise more students.



In summary, Dr. Olof Mogren is an outstanding candidate who meets and exceeds all the criteria for a Docent. He is an independent and innovative researcher, a dedicated supervisor, and a collaborative leader with a strong international standing. We at RISE fully support his ambition, and I am convinced that he will be a valuable and dynamic asset to LTH.

Yours sincerely,

**Hanifeh Khayyeri**

Head of Department

Department of Computer Science

RISE Research Institutes of Sweden

A handwritten signature in blue ink, appearing to read "Hanifeh Khayyeri".



**LUND**  
UNIVERSITY

November 10, 2025

Centre for Mathematical Sciences  
Mathematical Statistics

### Recommendation for Dr. Olof Mogren's Docent Application

I write in support of Dr. Olof Mogren's application for the title of Docent. I have had the opportunity to collaborate closely with Olof in my capacity as supervisor for the PhD student John Martinsson. Our joint supervision on Mr. Martinsson's project in soundscape analysis has been very effective. Dr. Mogren's expertise in machine learning provides a valuable complement to my background in statistical signal processing and time-frequency analysis. This combination offers our student comprehensive guidance from two distinct but related perspectives. In our work together, Olof has consistently demonstrated his dedication and insight as a supervisor, matched by a natural, collaborative approach to our joint work. Our supervisory discussions are consistently constructive and forward-looking, with a focus on the student's development. In my view, he already demonstrates the scientific maturity and independence required for the Docent level. Granting Dr. Mogren this title would be a logical step to formalize what is already a successful and productive research collaboration. It would undoubtedly benefit future interdisciplinary projects within Centre for Mathematical Sciences and LTH.

Therefore, I give Dr. Mogren my strong recommendation.

Sincerely

Maria Sandsten  
Professor in Mathematical Statistics

Matematikcentrum  
Prefekt

## Prefektyttrande angående Olof Mogren ansökan om antagning som docent

Olof Mogren ansöker om att bli antagen som docent i tillämpad matematik vid LTH. Detta ligger i linje med institutionens utvecklingsplan, där vi har en bred och växande verksamhet inom maskininlärning.

Hans expertis inom området utgör ett värdefullt komplement till vår forskningsgrupp inom statistisk signalbehandling och tids-frekvensanalys. Kombinationen av dessa kompetenser ger våra doktorander tillgång till vägledning från två olika men nära relaterade perspektiv.

Institutionen föreslår att ämnet för hans docentkompetens är Tillämpad matematik som numera är ett etablerat forskarutbildningsämne vid LTH.

Jag bedömer att Olof Mogren uppfyller samtliga kriterier avseende som krävs för antagning som docent vid LTH, och att hans verksamhet väl harmonierar med institutionens långsiktiga utvecklingsplan. Jag stödjer därför hans ansökan.

För verksamheten,

Erik Lindström, Professor & ETP  
Prefekt, Matematikcentrum

Som sakkunniga föreslår jag:

Natasa Sladoje, Professor Uppsala Universitet

<https://www.uu.se/kontakt-och-organisation/personal?query=N3-85>

<https://scholar.google.com/citations?user=n4uDNF8AAAAJ>

Carolina Wählby, Professor Uppsala Universitet,

<https://www.uu.se/kontakt-och-organisation/personal?query=N96-5999>

<https://scholar.google.com/citations?user=17soDRoAAAAJ>

Amy Loutfi, Professor Örebro University

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Gustaf Hendeby, Docent Linköpings Universitet

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Markus Liwicki, Professor Luleå Tekniska Universitet

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<https://scholar.google.com/citations?user=n1Y4zq4AAAAJ>

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