

Education

National University of Singapore

Singapore

Ph.D. IN OPERATIONS RESEARCH AND ANALYTICS

Sep. 2022 - Ongoing

Umeå University

Umeå, Sweden

M.Sc. In Engineering Physics (Direct Masters degree)

Sep. 2015 - Jun. 2021

Umeå University

Umeå, Sweden

M.Sc. In MATHEMATICAL STATISTICS

Aug. 2015 - Jun. 2021

Umeå University
B.Sc. In Mathematics

Umeå, Sweden

Umeå University

Oct. 2015 - Aug. 2021

B.Sc. In Physics

*Umeå, Sweden*Dec. 2015 - Feb. 2020

SKKU (Sungkyunkwan University)

Seoul, S.Korea

EXCHANGE STUDIES

Feb. 2020 - Jun. 2020

· Courses: Advanced Data Analysis, Advanced Machine Learning, Categorical Data Analysis and Introduction to Statistical Inferences

NTU (Nanyang Technological University)

Jurong West, Singapore

EXCHANGE STUDIES

Aug. 2019 - Dec. 2019

· Courses: Neural and Fuzzy Systems, Stochastic Processes, Regression Analysis, Computational Economics and Computational Fluid Dynamics

Work Experience _____

Sartorius

Umeå, Sweden

SOFTWARE DEVELOPER

Apr. 2022 - Jul. 2022

Sep. 2021 - Feb. 2022

Research Assistant

SUPERVISORS: XAVIER DE LUNA & THOMAS HELLSTRÖM

Umeå University, Sweden

- Study of robot-robot interactions using casual interference
- Simulations via NetLogo

Research Assistant

Stockholm School of Economics, Sweden

SUPERVISOR: ADRIEN D'AVERNAS

Sep. 2021 - Dec. 2021

- Data management within asset pricing research
- · Coded all parts from data fetching and data cleaning/pre-processing to implementation of algorithm and summarizing results
- Keywords: pre-processing, Deep Neural Networks, GPU computations, batch normalization, custom loss-functions, ensemble methods, Py-Torch, parallelization, regularization

Research Assistant Umeå University, Sweden

SUPERVISOR: PATRIK RYDÉN

Jun. 2021 - Sep. 2021

- Implemented new method for clustering mRNA data in R
- · Conducted simulation study, successfully showing improvement compared to the benchmark method (kNN)
- · Applied method for clustering of real cancer data

Tieto Skellefteå, Sweden

SOFTWARE DEVELOPER

Jun. 2019 - Aug. 2019

- Full stack development building an user interface for managing settings.
- Worked closely with project owner to ensure customer satisfaction.
- Keywords: C#, HTML, Javascript, SQL, CSS, Full stack, Agile development, Version Control

Tieto Skellefteå, Sweden

SOFTWARE DEVELOPER

Jun. 2018 - Aug. 2018

• Full stack development working on a new component for web-based application used in health care. Finished my project early, so got to do extra work tasks improving the product.

• Keywords: C#, HTML, Javascript, SQL, CSS, Full stack, Agile development, Version Control

Boliden Skellefteå, Sweden

FORWARDING AGENT Jun. 2016 - Aug. 2016

• Was responsible for transport of all lead from smelter in northern Sweden out to customers around Europe. Part of the job was communicating with transport personnel and stakeholders.

• Keywords: Independent work, high responsibility, international work, problem solving, communication

Humana AB Skellefteå, Sweden

Personal assistant

Jun. 2015 - Aug. 2015

· Worked at the home of a 12 year old boy with severe autism and ADHD.

Research Experience __

Double Degree Thesis in Engineering Physics & Mathematical Statistics

Umeå University, Sweden

Supervisor: Armin Eftekhari Jan. 2021 - Jun. 2021

- Thesis Title: Black-Box Optimization in High Dimensions with Application to Pre-Hospital Care in Sweden
- Link: https://www.diva-portal.org/smash/record.jsf?pid=diva2:1577649

Double Degree Bachelour Thesis in Mathematics & Physics

Umeå University, Sweden

Supervisor: Martin Rosvall Dec. 2019 - Feb. 2020

- · Thesis Title: Evaluating machine learning models for predicting glioma from single nucleotide polymorphism data
- Link: https://www.diva-portal.org/smash/record.jsf?pid=diva2:1569579



Programming MatLab, Python, R, C, C#, C++, Java, Javascript, HTML, SQL, LabVIEW

Documentation Latex, Microsoft Office

Pandas, Tensorflow, PyTorch, Numpy, Jupyter Notebook, Keras, Matplotlib, Google Colab, Microsoft Studio, Eclipse, Version

Control

Languages Swedish (Native), English (Professional), Spanish (B1)

Linear models, GLM, random forest, PCA, t-SNE, autoencoders, neural networks, CNN, RNN, RBF, NLP, kNN, Word Embeddings,

Machine Learning Feature Extraction, Data clearning, pre-processing, Prediction, Clustering, Regression, Decision trees, SVM, LDA, QDA, Ridge/Lasso

regression, SOM, ANOVA/MANOVA, AR/MA/ARMA/ARIMA

Extracurricular Activities & Volunteering work _____

Buddy programme

Umeå, Sweden

Jan. 2018 - Jun. 2018

• The Buddy Programme is a student driven organization that helps international students settle down and get to know the student life.

I helped welcoming international students to the university and help them with practical matters. Also organizing events and activities.

NärU (Corporate relations committee - Physics branch)

Umeå, Sweden

 President
 Sep. 2017 - Jun. 2018

- Led a small group volunteering to improve the relations between companies and students of Engineering Physics.
- Representative of the Physics students in the Student Union corporate relations committee.
- Board member of F-sektionen (Student Union Physics branch). Attended biweekly meetings. Distribution of budget to student clubs.

Enar IF (Sports Club for Engineering students)

Umeå, Sweden

 PRESIDENT
 Sep. 2017 - Jun. 2018

· Held training sessions for engineering students once a week.

· Arranged a soccer tournament.

F-sektionen (Student Union - Physics branch)

Umeå, Sweden

BOARD MEMBER AND COMMUNICATION OFFICER

Sep. 2016 - Jun. 2017

- Responsible for all communication within the organization. E.g. calling to general meetings and writing in student magazine.
- Attended biweekly meetings. Distribution of budget to student clubs.

Studienämnden (Quality of Studies committee)

Umeå, Sweden

MEMBER

Okt. 2015 - Jun. 2018

- Review course evaluations and discussing possible improvements with teachers to achieve high standards of courses taken undergraduate part
 of the Engineering Physics programme.
- Quarterly meetings with the program management of the Engineering Physics programme, evaluating the quality of courses taken by physics students.

NCPC (Nordic Collegiate Programming Contest)

Umeå, Sweden Nov. 2015.2016.2017

PARTICIPATOR AND TEAM COACH

- University rankings:
- 2015: 11/152016: 6/19
- 2017: 4/18

FUM (Student Union Council of Engineering and Science students)

Umeå, Sweden

REPRESENTATIVE OF PHYSICS PROGRAMME (1 OF 4)

Okt 2015 - Jun 2018

- The council is the student union's highest decision-making body and meets at least six times per financial year to decide the student union's direction and job description.
- · Voting on the appointment of new student union board.
- Representing the approx. 4000 members of the student union.

Smartstudies Skellefteå, Sweden

VOLUNTEERING STUDY COACH

Nov. 2014 - Apr. 2015

· Made home visits and helped high school students who struggled with mathematics.

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