

Måns Jacobsson

Student

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About me

I am currently pursuing a Master of Science degree in Engineering Mathematics at Lunds Tekniska Högskola. My academic focus centers around mathematical modeling, with a keen interest in the application of artificial intelligence and machine learning techniques to address challenges in sustainability.

Drawing from my background, I have gathered valuable experience in the energy sector, where I have collaborated within a team to develop sophisticated models aimed at simulating energy production from renewable sources. This hands-on involvement has deepened my understanding of sustainable energy systems and reinforced my commitment to driving impactful solutions in this sector.

Outside my academic pursuits I enjoy playing rugby, having a leading role in my team, skiing and hiking.

Skills

Programming:

- Python (main language)
- MATLAB
- Java
- Github

Language:

- Svenska (modersmål)
- Engelska (flytande)

Sports:

- Svenska U18 landslaget Rugby
- Grasshoppers Club Zurich Rugby (Schweiz)
- Malmö Rugby Club (Sverige)

Experience

Energy Analytics Group/ Data Scientist

June 2023 – August 2023, Zürich Switzerland.

My main focus was developing a stochastic model for simulating power production from wind turbines. In addition to this I completed a physical model for simulating power production from photovoltaics.

Fortum Holding/ Internship Machine Learning Team

July 2021 – July 2022, Zürich Switzerland

Arbetade ett år vid Fortums kontor i Zurich/Schweiz i teamet för maskininlärning och optimering. Arbetet bestod bl.a. av att ta fram matematiska modeller för simulering av vind- och solkrafts produktion, samt hur prissättningen på energimarknaden fungerar. Arbetsprocessen i teamet bestod av gemensam problemdefinition, litteratursökning, matematisk formulering, programmering, dokumentering samt ständig återkoppling av mina resultat och presentationer från teamet.

Worked a year in the optimization and machine learning team at Fortums office in Zurich. The work consisted of developing mathematical models for simulating wind- and solar power production, and looking at how the pricing on energy markets work. The work process in the team was built around collective problem definition, literature search, mathematical formulation, programming, documentation of work and recurrent feedback through presentations and discussions.

Kul i Malmö/ Summer internship

July 2020 - August 2020, Malmö Sweden

Was in charge of a group that taught kids how to play rugby.

July 2019 - August 2019, Malmö Sweden

Took care of kids and taught them how to play rugby.

Alpiq/ Summer internship

Juni 2018 - Juli 2018, Olten Switzerland

Two week internship at the energy company Alpiq in Olten, Switzerland where I got acquainted with programming in MATLAB and how you could use mathematical models to predict solar power production.

Limhamns Förskola/ Sommarjobb

June 2017 - July 2017, Limhamn Sweden

Took care of kids in the ages 1-5.

Education

Lunds Tekniska Högskola / M.Sc in Engineering, Engineering Mathematics

August 2020 - June 2026, Lund Sweden

Began my studies in the autumn of 2020. Took a gap year after finishing the first year to do a internship at Fortum Holding. Resumed my studies in the autumn of 2022.

S:t Petri Skola/ Natural Science, Science

August 2017 - June 2020, Malmö Sweden

Gymnasieexamen i naturvetenskap med inriktning Science, vilket innebar en specialisering i partikelfysik och mikrobiologi.

High school diploma in natural science with the specialization "Science", which meant specializing in particle physics and microbiology..