



Felix Mattsson

CV

Summary

I am a 25-year old, quite newly graduated student, currently working as a data scientist with a focus on innovation at Volvo Cars! I studied at Chalmers university of technology, where I studied engineering physics (sv. teknisk fysik) with a master in engineering mathematics. In my master I learned a lot about statistics, programming, calculations and machine learning. I want to work with data science, data analysis, applied mathematics, statistics, machine learning, big data, programming and similar things. I want to use my problem-solving skills and analytical thinking to make a good impact on society, while at the same time follow my passion for learning and developing.

Education

2015–2021 **Master of Science in Engineering physics (sv. Civilingenjör i Teknisk fysik)**,
Chalmers University of Technology, Gothenburg.

Courses in: physics, mathematics, programming

2018–2021 **Master programme: Engineering Mathematics and Computational Science**,
Chalmers University of Technology, Gothenburg.

The courses I have taken that I find most relevant to what I want to work with:

Algorithms for machine learning and inference 7.5 hp

Statistics for big data 7.5 hp

Statistical inference 7.5 hp

Algorithms 7.5 hp

Nonlinear optimization 7.5 hp

High performance computing 7.5 hp

Work Experience

Full-time work

2021-ongoing **Data Scientist**, *Volvo Cars via Nexer Group*, Gothenburg.

Working as a data scientist with focus on innovation within my organization, meaning I am working with making data available and finding efficient solutions for my organization, so that my colleagues can work in a more data-driven and systematic way.

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2021 **Algorithm developer**, *Syntronic Research and Development*, Gothenburg.

Projects

Time series forecasting (for sales demand): I developed a framework for modelling forecasts of time series of company sales, to be used for planning and logistics. Developed in python using git

Summer internships

2019 **Machine learning intern**, *Bokio*, Gothenburg.

I developed a machine learning-algorithm based on the K-means method for provider detection in invoices. Developed in python.

2018 **Computations engineer**, *Scania*, Södertälje.

Simulated electrical engine-noise using the software MANATEE (Magnetic Acoustic Noise Analysis Tool for Electrical Engineering) to explore the software and find vital parameters for noise reduction. Worked with the software MANATEE, which is based on MATLAB.

2013-2015 **Sports camp leader**, *Scania Sports Camp*, Södertälje.

Taught sports and games to children in ages 7-13 years.

Part-time Jobs

2019-2021 **Teaching assistant. Mathematics**, *Chalmers*, Gothenburg.

Part-time job where I am in charge of exercise classes in mathematics at Chalmers

2016-2017 **Tutor for highschool students**, *MyAcademy*, Gothenburg.

Part-time job where I taught mathematics and physics to highschool students.

Other Projects

2020 **Master thesis: Molecular optimization using deep learning**, *AstraZeneca*, Gothenburg.

Improved a deep learning network for molecular optimization, previously developed on AstraZeneca which was based on natural language processing methods and used to find molecules with potential in drug discovery. Worked with python, git and AstraZeneca:s scientific computing platform.

2019 **Project course in mathematical and statistical modelling**, *Volvo*, Gothenburg.

I analyzed traffic data to model the probability of critical traffic scenarios (i.e crashes) using extreme value theory. Worked in python.

2018 **Bachelor thesis: Compendium in special theory of relativity**, *Chalmers*, Gothenburg.

Me and 4 other students wrote a compendium about the subject special relativity in physics which acts as the course literature in a course on the subject at Chalmers. the book is called "An introduction to special relativity". It was written in LaTeX.

Volunteering

2017-2018 **Mentor**, *Intize*, Gothenburg.

Taught mathematics to highschool students.

Skills

Languages **Swedish, English, some Spanish (level B2).**

Tools **Python, Matlab, R (Basic), Git, SQL (Basic).**

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Describing words **Rational, Social, Helpful, Eager-to-learn, Patient, Empatic, Curious, Analytical, Systematic.**

Other Merits

Effective Altruism Chalmers organizer.

I am a part for the student union society Effective Altruism Chalmers, where I am organizing events.

Exchange studies, Barcelona.

Studied and lived in Barcelona during the autumn 2018.

Grant **Sancta Ragnhilds Gille.**

The grant was given to students with good grades from Södertälje who studies at university level.

Drivers licence **B**

Separate Courses

- HT 2021 **Python programming and artificial intelligence**, *University of Gothenburg*, 5 hp.
- HT 2017 **Programming in C**, *University of Gothenburg*, 7.5 hp.
- VT 2018 **Theoretical Philosophy: Introductory Course**, *University of Gothenburg*, 30 hp.
- HT 2020 **Functional analysis**, *Chalmers*, 7.5 hp.
- HT 2021 **Statistical thinking**, *University of Gothenburg*, 7.5 hp.
- HT 2016 **Logic: Formal languages**, *University of Gothenburg*, 7.5 hp.
- HT 2016 **Logic: Modal logic**, *University of Gothenburg*, 7.5 hp.
- VT 2017 **Logic: Completeness and Decidability**, *University of Gothenburg*, 7.5 hp.
- HT 2017 **Logic: Set theory**, *University of Gothenburg*, 7.5 hp.