ARASH DARAKHSH

Chalmers Graduate - M.Sc. Complex Adaptive Systems

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EDUCATION

M.Sc. Complex Adaptive Systems - MPCAS

Chalmers tekniska högskola

📅 2021-2023   ● Gothenburg, Sweden

- Topics: Deep learning, computer vision, neural networks, statistics, optimization, data structures & algorithms
- **Master's Thesis**

B.Sc. Engineering Physics - TKTFY

Chalmers tekniska högskola

📅 2018-2021   ● Gothenburg, Sweden

- Topics: Mathematical analysis, theoretical physics, experimental physics, programming, statistics
- **Bachelor's Thesis**

WORK EXPERIENCE

Associate Research Engineer

GKN Aerospace Sweden AB

📅 2024, March-October   ● Trollhättan, Sweden

- Deep Learning & Computer Vision
- Full pipeline in developing deep learning models for industrial applications

Summer Job - Software Developer

GKN Aerospace Sweden AB

📅 2023, June-July - 5 weeks   ● Trollhättan, Sweden

- Continuous integration of ML models

Summer Job - Assistant Plumber (VVS)

Kungälvs rörläggeri AB

📅 5 summers during 2014-2021   ● Gothenburg, Sweden

- Construction from schematic drawings
- Installation of radiators, drainage systems, bathrooms, heat pumps, water pipes etc.

○ HOBBY PROJECTS

○ RST - Road Segmentation Tool

○ ACL - Autonomous Active Learning

○ Stochtimizer - Stochastic Optimization Library

○ C-GEMM - C++ General Matrix Multiplication

PROGRAMMING

Language	Experience
Python	Personal projects, machine learning and master thesis.
C/C++	Memory management and high performance computing (HPC).
Matlab	Computational physics, numerical simulations and statistics.
MySQL/SQLite3	Basics of data tabulation, online bot user logging and querying.
Java	Introduction to programming and object oriented programming.
LabVIEW	Experimental physics and sensor acquisition.

SKILLS

`Mathematics` `Physics` `Statistics`
`Machine learning` `Deep learning`
`PyTorch` `Tensorflow Keras` `Scikit-learn` `OpenCV`
`ML` `CV` `NLP` `HPC` `Big data`
`Docker` `MlFlow` `MLOps`
`Windows` `Linux` `Vim` `LaTeX` `Git`
`Electronics & EM` `Experimental physics`
`B-license`

LANGUAGES

Swedish	Fluent, Native
English	Fluent, B2
French	A2

RELEVANT COURSES

`Complete Course List`
`Algorithms For Machine Learning and Inference`
`Advanced Machine Learning with Neural Networks`
`Mathematical statistics`
`Statistical Learning for Big Data`
`Data Structures and Algorithms`
`Artificial Neural Networks`
`High Performance Computing`
`Image Processing`
`Stochastic Optimization Algorithms`
`Machine Learning for Natural Language Processing`