

# CURRICULUM VITAE - JOHANNES SKOG

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## PERSONAL INFORMATION

**Johannes Skog** - 1989  
**Residence:** Lund, Sweden  
**Tel:** <MASKED>  
**Email:** <MASKED>  
**Homepage:** [johannes-skog.github.io](https://johannes-skog.github.io)  
**Github:** [github.com/johannes-skog](https://github.com/johannes-skog)  
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## HIGHER EDUCATION

### LINNAEUS UNIVERSITY

**Introduction to Quantum Computing** - 15c (2022)  
**Monte Carlo methods** - 7.5c (2021)  
**Astrophysics** - 7.5c (2021)

### LUND UNIVERSITY

**M.Sc Engineering Physics** - 300c. (2013-2017)  
**Physics Courses** - 30c. (2012)  
**Philosophy Courses** - 30. (2012)  
**Mathematics Courses** - 52c. (2011-2012)

### MALMÖ UNIVERSITY

**International relations** - 30c. (2009)

## WORK EXPERIENCES

### SECURITAS

**Senior Data Scientist** (2021-10 –)  
Working on classification of text reports, with meta data, using LLMs and distilled LMs. Training of LLMs from scratch. Development of risk assessment method for Securitas' objects using spatial aware neural networks using geospatial and temporal data.

**Data Scientist** (2020-06 - 2021-10)  
Working on multiple machine learning projects involving NLP for classification of

large collection of text and statistical/machine learning approaches for assessing risk.

**Junior Data Scientist Computer Vision** (2019-04 - 2020-06)

Working with object detection, re-identification, data augmentation, creation of databases to store metadata used during training of neural networks.

AXIS  
COMMUNICATIONS

**Product Imaging Engineer** (2017-11 - 2019-02)

Research and development, interconnecting sensor, lens and software/imaging algorithms into a functional surveillance camera. Assessing production flow in factory and implement improvements.

**Master Thesis** (2017-01 - 2017-08)

Title: [Re-identification with Recurrent Neural Networks](#)

Development and examination of state of the art deep learning based systems for re-identification of persons through analysis of series of images with recurrent neural networks.

**Student Engineer** (2016-11 - 2017-06)

Test of cameras and the development of scripts used for standardized tests

EXPERIENCES

**Sweden's National Defense Forces** (2010 - 2018)

Solider at the National Defense Forces

**Goethe institute in Freiburg, Germany** (2011)

Language studies

PROJECTS

*This section is kept brief, please see [github page](#) and [website](#) for more projects and details concerning them.*

**Large Language Model (+7b) training on chat data** (spring of 2023)

Fine-tuning of LLaMA 7b for chat interaction using LoRA and DeepSpeed for efficient multi-GPU training.

**Sentiment Classification with torchserve and AKS deployment** (spring of 2023)

Fine-tuning of LM for sentiment classification on twitter data. Azureml workspace used for dataset/model versioning. Deployment of model on an azure kubernetes cluster with torchserve.

**FaceGen Diffusion** (winter of 2022)

Exploration of diffusion models with application for generating images of faces.

**Deep Learning Framework** (autumn of 2019 - )

Development of deep learning framework written with template meta programming in c++ and cuda.

PROGRAMMING  
QUALIFICATIONS

**Phyton** - Very good

**C++** - Good

**Bash** - Good

**SPECIAL  
QUALIFICATIONS**

<b>Deep Learning</b>	<b>Machine Learning</b>	<b>Linux</b>
<b>Docker</b>	<b>git</b>	<b>Docker</b>
<b>Pytorch</b>	<b>SQL/noSQL (MongoDB)</b>	<b>cuda</b>
<b>Azure</b>	<b>Kubernetes</b>	<b>TorchServe</b>

**LANGUAGES**

**Swedish** - Native

**English** - Full Professional Proficiency