

# CURRICULUM VITAE

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### Career objective

Do research and development in artificial intelligence and machine learning. Work with and develop state of the art machine learning algorithms.

### Summary of skills and qualifications

- High proficiency in learning and applying abstract theoretical knowledge. Graduate level mathematics and theoretical physics. Thesis on topological quantum computing.
- Experience with machine learning from academic projects. Implementing and extending state of the art algorithms, including deep learning and actor-critic reinforcement learning.
- Experience in designing large software systems with thousands of monthly users. Lead developer and coordinator in a team of academics and developers. Experience with Python, C, C++, Java, Javascript, Haskell, Julia, Mathematica, Matlab. Proficient with Linux/Unix environments, version control systems etc.
- Eager to learn new skills, fast learner.

### Most relevant education

**Master's Program in Mathematics – SU & KTH (joint program)** *2014 – Active*  
Specialization towards analysis, mathematical physics, quantum mechanics, quantum information and computing. Also relevant; cryptography and category theory.

**Summer student program, DESY, Hamburg** *Summer 2014*  
The program at the Deutsches Elektronen-Synchrotron involved specialized lectures in theoretical and experimental physics, in part linked to the accelerators on campus.

### Most relevant employment and experience

**Amanuens – Department of Mathematics, SU** *2013 Aug – Active*  
Developing and maintaining software for use at one of Sweden's largest online courses. Teaching mathematics to classes of up to 150 students, and one-on-one tutoring. Part of a working group focusing on improving education and developing MOOCs.

**Independent Research Project – SU & SSE** *2016 – Active*  
Developing and implementing machine learning algorithms for solving models in macroeconomics in a team of mathematicians, economists and programmers. Working with various deep learning algorithms, in particular actor-critic reinforcement learning.

**Researcher, Summer Intern – Ericsson Research, Multimedia Technologies** *Summer 2013*  
Developing real-time web applications for Ericsson Spaces, heavy use of Node.js and javascript. Through this job I gained experience in working in a professional office-environment and collaborating within a group of professional software engineers.

### Miscellaneous

Fluent in Swedish and English, intermediated level Russian. Enjoy skiing and boarding on both snow and water. Certified advanced open water scuba diver. Former violin player.