

CURRICULUM VITAE

Viktor Qvarfordt

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Summary of skills and qualifications

- High proficiency in learning and applying abstract theoretical knowledge. Graduate level mathematics and theoretical physics.
- 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 – 2017
Specialization towards analysis, mathematical physics, quantum mechanics, quantum information and computing. Also relevant; cryptography and category theory.
Master's thesis: *Non-Abelian Anyons: Statistical Repulsion and Topological Quantum Computation*

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. I collaborated within a group of professional software engineers.