Emil Johansson

Master of physics from Lund University (June 2018)

22 August 1994

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About me

Mathematical Physicist doing master thesis applying deep learning to quantum physics looking for position to gain experience in applying neural networks in new ways.

Favorite language: python | Least favorite language: Matlab | Favorite editor: Emacs

Skill

- quantum mechanics
- mathematics
- python
- c++
- git
- google compute engine
- keras
- tensorflow

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

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interests

My interests include, but are not limited to, deep learning, programming and software development, and quantum mechanics.

In my spare time I like to travel, read interesting articles and tutorials, work on my programming projects, and tinker with computers. An example is the Raspberry Pi that is running on top of my closet. Currently it is running a chat client, network wide ad-blocker, Kodi media center, personal git repository, and personal file storage. Another is my laptop running OpenSUSE and Emacs. The later I spend way to much time customizing. Much of my programming skills originate from learning in my spare time.

education

since 2016	M.Sc. Majoring in Physics	Lund University
2013-2016	B.Sc. Majoring in Physics	Lund University
2010-2013	High school Natural Science Program	Haganässkolan, Älmhult

publications

2016	Numerical simulations of contact geometry effects on transport properties of semiconductor nanowires: Bachelor thesis work at the department of mathematical physics.

awards

2013	Swedish Junior Water Prize: Award for my high school graduation project investigating presence of lead in garden hoses.

experience

2017-	Master Thesis in deep learning Learned how to build deep learning models with tensorflow and keras. Inventing new ways to use the power of neural networks and use the google compute enegine for training large models.	One year master thesis work

other information

Born in the small town of Älmhult in Småland, moved to study physics at Lund University in 2013.

The goal of my studies at Lund University is to train my ability to learn independently, not to memorize facts and formulas. In an ever changing world, the ability to quickly comprehend and analyze is more important than ever. My grades are not spectacular as I never really study specifically to pass exams, but to understand the subject. However,

In ten years I see myself as the specialist, the guy to ask when there is a problem in my area of expertise. I enjoy investigating abstract constructions in depth using mathematics to understand them. After graduation I am looking for positions in which I can gaining expertise in the vibrant field of applying deep learning techniques in new areas.