TROELS F. RØNNOW

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ABOUT ME

I made my first electrical circuit when I was 5, wrote my first program when I was 10 and made my first physics simulation when I was 15. I've been enthusiastic about technology since I was born and have worked with many different fields including algorithm design, quantum computing platforms and machine learning. Recently, I've mainly been interested in classical hardware architectures, machine learning, distributed ledgers and business development around these fields.

WORK EXPERIENCE

FETCH.AI LTD.
2018 – TODAY HEAD OF SOFTWARE

I am leading a team of 20+ people who are building the next generation distributed ledger technology.

NOKIA TECH, ADVANCED RESEARCH LAB
2016 – 2018 RESEARCH LEADER

I lead a small team that works on blockchains in healthcare.

NOKIA TECH, ADVANCED RESEARCH LAB
2014 – 2016 SENIOR RESEARCHER

I've developed highly optimised algorithms for machine learning including binary feature extractors, restricted Boltzmann machines and depth mapping using Potts model. I helped designing and implementing FPGA codes.

ETH ZURICH
2011 – 2014 POST. DOC.

I worked on high performance implementations of Ising spin glass solvers. I wrote high performing classical and quantum annealing codes which were compared against the D-Wave One and Two chips. During this work, I've been handling massive amounts of data.

UTOPIA SOLUTIONS APS
2006 – 2013 FOUNDER, SOFTWARE ENGINEER

Over a seven year period, I ran a consultancy company that made custom-tailored programs and solutions.

EDUCATION

ALBORG UNIVERSITY
PHD DEGREE **2008 – 2011**

I performed research in theoretical physics and applied mathematics. My Ph. D. was concerned with formation of electron-hole complexes on the surface of a cylinder and fractional dimensional nanostructures. My predictions were later observed experimentally. I wrote many simulations using techniques such as basis expansion and Monte Carlo sampling.

AALBORG UNIVERSITY
M. SC., NANOTECHNOLOGY **2003 – 2008**

I did a master degree in science with focus on nanophysics. I specialized in computational techniques to solve the Schrödinger equation in various settings. Around two thirds of my studies were devoted to theory and the remaining third on working in the lab.

HIGH SCHOOL
2000 – 2003

During high school I qualified, on a national level, to participate in the Baltic Olympiad in Information technology in 2002 and the International Olympiad in Information technology in 2003. I also wrote my first interpreted language in C++.

REFERENCES

MATTHIAS TROYER
Professor, ETH, Zurich
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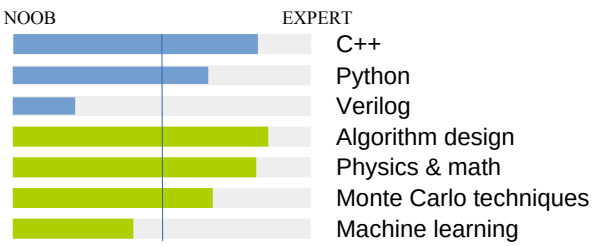
PUBLICATIONS

Nat. Phys. 10, 218–224 (2014)
Science, 344, 1330-1331 (2014)
Science, 348, 215-217 (2015)

Citations: 1405
h-index: 13
I10-index: 14

Peer-review publications: 20
Patent applications: 40+

SKILLS



HONORS & AWARDS

BEST PUBLICATION AWARD 2015
I was awarded the Best Publication 2015 from the Advanced Research Lab.

NOKIA TECH AMBASSEDOR 2015
I was selected as TECH ambassador 2015.

PEER-TO-PEER BADGE
“Very pro-active contributor and innovator to help also other teams in TECH to find the next BIG thing.”, Jarkko Pellikka, Nokia