

**Location:**

Prague, Czech Republic

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Languages:

English, Czech, Russian

Birth:

Russia, 1995

About

Highly motivated researcher with a strong background in computer science and quantum computation fields. Having rich experience with software engineering and architecture designing. My research interests are mostly related to quantum computations and quantum information processing. These fields feel almost like magic to me. I finish my Master's degree this academic year 2020/21 and actively looking for a Ph.D. position.

Qualifications

Master of Computer Science; Czech Technical University in Prague, Faculty of Information Technology – Ing. 2021

Thesis: Incremental learning of Quantum Generative Adversarial Networks.

Quantum Computing and Programming; QWorld Association (QWorld), QCzech – Diploma 2021

Quantum computing and programming workshop based on the QWorld materials.

Bachelor of Computer Science; Czech Technical University in Prague, Faculty of Information Technology – Bc. 2018

Thesis: Mobile application for route search in Prague Public Transport.

Publications

Incremental learning of Quantum Generative Adversarial Networks TBD

Recently Christa Zoufal et al. showed the power of quantum generative adversarial networks applied to quantum generator approximation. My work explores the possibility of incremental learning of such quantum generative adversarial networks and their applications in real-world scenarios. The paper extends Master's thesis research and is in progress as of now.

Experience

ŠKODA AUTO a.s. – Lead software developer 2019 – 2021

Leading a development team; Designing hardware communication and low-level vehicle data processing; Developing functionality for the new generation of electrical vehicles Škoda Enyaq iV.

E.ON – Senior software developer 2018 – 2019

Technical analysis; Designing software architecture; Predicting gas and electricity consumption based on user's profile.

Closeup Inc. – Software developer 2017 – 2018

Implementing advanced socket communications; Processing low-level data using video codecs (HEVC, H.265).

And dozens of other software projects... 2014 – 2017

Research interests

Quantum computation; Quantum information; Quantum machine learning; Quantum continuous variables; Quantum cryptography; Applications of quantum computing; Computer science; Artificial intelligence; Distributed

computations; Algorithms complexity classes.

Related skills

Quantum programming; Qiskit; Cirq; Quantum error-correction; Quantum algorithms; R; Matlab; Mathematica; Python; C/C++; Scripts programming; Linear algebra; Group theory; Statistic tests; Machine learning; Data mining; Parallel and distributed computations; Circuit designing; Verilog; Programming; Software engineering; Algorithms designing.

References

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