Anastasiia Popova

DATA SCIENTIST

Fast and enthusiastic learner with strong problem-solving skills

CONTACT

- +41 77 926 47 99
- ppva.nastya@proton.me
- www.linkedin.com/in/ nastya-popova
- Basel, Switzerland

PROFILE

- Russian with Swiss B permit
- MSc in quantum electronics
- Date of birth: 17.09.1996

LANGUAGES

English - Upper-Intermediate
Russian - Native
German - Basic

SKILLS

Python: Numpy, Scipy, Pandas, Scikit-Learn, Scanpy, TensorFlow; Machine Learning, Statistics, Querying in SQL and MongoDB, FastAPI, GitHub, Scientific Writing

EDUCATION

Lomonosov Moscow State University | 2014-2018
Top-20 QS World University Rankings for Natural Sciences 2018
Bachelor Degree in Physics, Moscow, Russia

Lomonosov Moscow State University | 2018-2020
Master Degree with Honors in Physics, Quantum Electronics Department, Moscow, Russia

WORK EXPERIENCE

Junior Software Engineer | 2016 - 2019
Russian Quantum Center, Skolkovo, Moscow, Russia

My responsibilities as a junior software engineer were to actively participate in the end-to-end development of quantum Monte Carlo method for studying a tunneling impurity problem in ultra-cold mediums.

Scientific Researcher | 2019 - 2023
Russian Quantum Center, Skolkovo, Moscow, Russia

In my role as a scientific researcher, I was developing a fast simulation method for optical quantum computers.
My responsibilities also entailed the validation of this methodology in comparison to alternative approaches and exploration of practical applications of optical quantum computers.

Data Science Intern | June 2023 - September 2023
University of Basel, Department of Biomedicine, Basel, Switzerland

As a Data Science Intern, I conducted a full circle of data analysis, including raw data processing, EDA, filtering, feature selection, and dimensionality reduction of human transcriptome data (CITE-seq, cell hashing).

Anastasiia Popova

DATA SCIENTIST

Fast and enthusiastic learner with strong problem-solving skills

CONTACT

📞 +41 77 926 47 99

✉ ppva.nastya@proton.me

🌐 www.linkedin.com/in/nastya-popova

📍 Basel, Switzerland

ACHIEVEMENTS

- Published open-source Python package for simulation of optical quantum computers (GitHub, C++ module integration).
- Twice awarded a Merit-based Scholarship (Theoretical Physics and Mathematics Advancement Foundation, 2018-2020).
- The first author of two papers, participated in 5 international conferences.
- Winner of the competition of students' research papers (Mikhael Gorodetsky Prize, 2020).

PUBLICATIONS

Popova, A. S., V. V. Tiunova, and A. N. Rubtsov. "Quantum Monte Carlo simulation of BEC-impurity tunneling." Physical Review B 103.15 (2021): 155406.

Popova, A. S., and A. N. Rubtsov. "Cracking the quantum advantage threshold for Gaussian boson sampling." arXiv preprint arXiv:2106.01445 (2021).

CERTIFICATES

1. Applied Data Science Lab, WorldQuant University, May 2023
2. Artificial Intelligence Virtual Experience Program, Cognizant, July 2023
3. Neural Networks and Deep Learning, Coursera, October 2023
4. Writing in the Sciences, Coursera, June 2023

INTERESTS

- Organizer and active participant of Journal Club at Russian Quantum Center.
- Producer of two short movies.
- Art, healthy lifestyle, philosophy of physics, yoga, cycling, snowboarding.