

Fyodor Amanov

Quantum computing researcher at Oxford University

UNESCO Quantum 100 Laureate

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EDUCATION

Oxford University, UK— Postgraduate studies

SEPTEMBER 2026 - PRESENT

Academic focus: Quantum Computation, Quantum Machine Learning and Distributed Quantum Computing

Sejong University, Seoul, South Korea— BSc Computer Security, Exchange student

AUGUST 2025 - FEBRUARY 2026

Khalifa University, Abu Dhabi, UAE— BSc Computer Science, Exchange student

JAN 2025 - JUNE 2025

Dean's list

New Uzbekistan University— BSc Computer Science, Research Assistant

OCTOBER 2022 - MAY 2026

Dean's list

Merit-based scholarship covering 100% of expenses

Under the Academic direction of MIT and Technical University of Munich

AWARDS

UNESCO Quantum 100 Laureate— named as one of the 100 most influential individuals in Quantum science around the world

Digital Generation award— awarded by the First Lady of Uzbekistan for contributions to science and engineering

PROFESSIONAL AND TECHNICAL EXPERIENCE

Oxford University, UK— Researcher: Quantum computation and Quantum machine learning

SEPTEMBER 2026 - PRESENT

QuanTech, Singapore— Chief Technical Officer and Founder

OCTOBER 2025 - PRESENT

Leading R&D initiatives in quantum information science, focusing on quantum algorithms for networking, quantum simulations, and quantum machine learning. Driving technical strategy and overseeing development of quantum computing solutions.

QAI Ventures, Singapore— Quantum Startup incubation program

OCTOBER 2025 - JANUARY 2026

Conducted research on Quantum Monte Carlo simulations and Quantum Long-Short term memory models with their applications to the forecasting of option prices. The algorithms were run on quantum hardware

Sejong University, Seoul, South Korea— Research assistant

SEPTEMBER 2025 - FEBRUARY 2026

Investigated and implemented quantum optimization techniques to enhance machine learning models and analyzed their performance.

New York University (Abu Dhabi campus) - Khalifa University— Independent researcher

APRIL 2025 - JUNE 2025

Conducted research on quantum simulations using Variational Quantum algorithms run on quantum hardware

Khalifa University, Abu Dhabi, UAE— Department of Mathematics, Research Assistant

FEBRUARY 2025 - JUNE 2025

Conducted research on differential forms and geometric algebra, with a focus on their applications to machine learning and optimization theory

Yandex— Backend Apprenticeship

OCTOBER 2024 - DECEMBER 2024

Conducted implementation and analysis of audio compression algorithms, leveraging advanced C++ along with fast Fourier transforms and machine learning techniques to improve fidelity and efficiency of the algorithms.

Harvard University, Boston, USA—Research assistant

JULY 2023 - SEPTEMBER 2023

Engineered and optimized deep neural network models with more than 70 million parameters to address high-dimensional AI research problems

The US Embassy, Tashkent, Uzbekistan— Educator

JUNE 2023 - AUGUST 2023

Designed and delivered introductory courses on quantum computing and quantum information to cohorts of 20+ participants per session

Recognized as the center's Best Educator of the Year

Ion-Plasma Institute, Tashkent, Uzbekistan— Research intern

FEBRUARY 2023 - JUNE 2023

Conducted numerical simulations of ionic systems using Python. Applied advanced data analysis techniques and utilized frameworks such as Qiskit to perform quantum-inspired simulations and assess the behavior of strongly interacting ion ensembles.

SELECTED PROJECTS AND PUBLICATIONS

Distributed Quantum Machine Learning Algorithms

Transformer-based and LSTM-based Quantum circuit optimization

Protocols on Quantum graph states for system routing and networking— Sejong University
Comparative analysis of the quantum programming languages— Research paper, KAIST
Quantum Monte Carlo simulations and Quantum Long-Short Term Memory models for option pricing— QAI Ventures, Singapore
Quantum Machine learning models and applications— Yonsei University
Quantum simulations of Lithium Sulfur crystal structures using Variational Quantum methods— NYU Abu Dhabi
Categorical Quantum computation— Poster, Swiss Research Station
Quantum Physics and Oranges— Book for kids and school students
AI and its role in the Second Scientific Revolution— IEEE ECAI paper, Best-paper nominee
<https://doi.org/10.1109/ECAI58194.2023.10194056>

SELECTED CONFERENCES AND ACTIVITIES

Clay Institute of Mathematics, Oxford University— 39th British Topology Meeting, Invited Attendee
OCTOBER 2026

Clay Institute of Mathematics, Oxford University— Multi-valued Harmonicity Workshop, Invited Attendee
SEPTEMBER 2026

Clay Institute of Mathematics, Oxford University— Clay Research Conference and Workshop, Invited Attendee
SEPTEMBER 2026

Oxford University— Quantum Error Correction Workshops, Invited Attendee
SEPTEMBER 2026

NYU Abu Dhabi— NYUAD Quantum Hackathon, **Mentor**
APRIL 2026

Massachusetts Institute of Technology—Quantum Hackathon 4x Participant
2026, 2025, 2024, 2023

MIT-KAIST, Daejeon, South Korea— Quantum Information Winter School
JANUARY 2026

Quantum computation, Quantum metrology and sensing, Quantum cryptography, Quantum information

QAI Ventures, Singapore— Quantum finance hackathon, **1st place in Portfolio Risk Management**
OCTOBER 2025

École Polytechnique Fédérale de Lausanne, Switzerland— ML and Deep Neural Networks Bootcamp
JULY 2025

Completed with an excellence certificate

NYU Abu Dhabi— NYUAD Quantum Hackathon, **2nd place for Quantum simulation model of Lithium batteries**
APRIL 2025

Swiss Research Station, Switzerland— Mathematical Physics Winter School
JANUARY 2025

Presented research on Categorical Quantum computation

MIT and Cornell University— Quantum Integrable Systems Summer School
JULY 2024

Completed with an excellence certificate

Google Quantum AI, San Francisco, USA— Introduction to Quantum Computing
SEPTEMBER 2023 - APRIL 2024

Year-long curriculum in quantum computing. Grade: A

University of Gdansk, Poland— Global Quantum Initiative Summer School
JULY 2023 - AUGUST 2023

Quantum Key Distribution, Post-Quantum Cryptography, and Attacks on Quantum devices

Yale University— 3 x Quantum hackathon participant

Sung Kwun Kwan University— Qiskit Fall Fest Quantum hackathon participant

Yonsei University— Qiskit Fall Fest Quantum hackathon participant