Lavrin Oleg Igorevich

Moscow, Russian Federation

📞 +7 909 663 63 08 ✉ lavrin.oi@phystech.edu ⊙ HoiAlice

EDUCATION

MIPT DGAP	**09 2018 – 08 2022**
bachelor of science (Quantum Computing and Simulation)	*Moscow, Russia*
MIPT DCAM	**09 2022 – 08 2024**
master of science (Optimal Control, Optimisation and Operations Research)	*Moscow, Russia*

COURSEWORK / SKILLS

- Financial Math & Stochastic Processes
- Tensor Networks
- Traffic Simulation
- Convex Analysis & Optimization
- Discrete Optimization
- Game Theory
- Social Choice
- Differential Geometry
- Non-convex optimization
- Variational Inequalities
- Micro & Behaviour Economics
- Econometrics

TECHNICAL SKILLS

Languages: Python
Developer Tools: JAX, OR-Tools, CPLEX, CVXPy, TTPy
Technologies: D-wave, IBM experience, OpenStack

WORK EXPERIANCE

Terra Quantum ⬈	**07 2019 – 11 2021**
Software Developer	*Moscow, Russia*

- software for experiment analysis & optimisation
- software for simulation and LDE solving

Huawei Russian Research Institute ⬈	**08 2022 – 06 2023**
Cloud Engineer	*Moscow, Russia*

- mathematical models for robust problems
- heuristics development and realization

Eventum AI ⬈	**07 2023 – 10 2023**
QR assistant	*California, USA*

- strategy work with quant trading

PROJECTS

Quantum Inspired Optimisation | Python, AMEn, CrossOpt, GRAPE	**2019 - 2021**

- developed a GRAPE ⬈ based framework for quantum gate synthesis (python)
- developed tensor based combinatory optimisation algorithms
- developed maximum approximation algorithm for pure states

Cloud Consolidation | Python, OR-tools, OpenStack	**2022 - 2023**

- modified migration heuristics for higher dimensions
- developed few approaches for multidim robust binpacking

COMPETITIONS AND WORKSHOPS

Hackaton "Transport and Logistic" ⬈	**23-24 10 2021**
quantum QUBO solvers for industry	*Moscow*

- formulated QUBO and solved them on quantum devices. ⬈
- winner certificate. ⬈

All-Russian Olympiad of Students "I am a professional" ⬈	**31 05 2022**
mathematics	*Moscow*

- winner certificate. ⬈