KORITSKY NIKITA

Data Science student & Quantum Physics researcher

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RESEARCH EXPERIENCE

Machine Learning in Quantum Physics
Russian Quantum Center

📅 Oct 2019 – Ongoing

- Applying generalized Learning by Confusion algorithm for phase transition detection in ferrimagnetic materials
- Developing GAN - inspired algorithm for quantum hamiltonian learning in spin chains

Quantum optimization
Russian Quantum Center

📅 June 2019 – Oct 2019

- Created an algorithm for financial portfolio optimisation using combining approach of classical bipartition, semiclassical SimCIM and quantum D-wave annealer

PUBLICATIONS

- Koritsky, N. A., Solov'yov, S. V., Fedorov, A. K., & Zvezdin, A. K. (2020). Learning phase transitions in ferrimagnetic GdFeCo alloys. arXiv preprint arXiv:2010.16237
- Koritsky N., Kiktenko E. et al. (2020). "GAN-inspired algorithm for hamiltonian learning" poster at the *Summer School of Machine Learning at Skoltech* & *2nd school of Quantum Technologies*

SCHOOLS & CONFERENCES

- International School on Quantum Computing
- Summer School of Machine Learning at Skoltech
- V International Conference on Quantum Technologies
- 1st Science School of Quantum Communications

EDUCATION

MSc in Data Science
Skoltech

📅 2020 - Ongoing

BSc in Applied Mathematics and Physics
Moscow Institute of Physics and Technology Academic University

📅 2016 - 2020

IT in management
Graduate School of Management

📅 2013 - 2016

SKILLS & STRENGTHS

English Advanced   Git   numpy / scipy / jax   Linux   Sklearn   PyTorch

Curiosity   Perseverance   Communicability

GRANTS & AWARDS

- Russian Science Foundation grant
- MIPT scholarship for excellent study
- 1st place at the Quantum Hackathon
- Academic University sponsor's scholarship for excellent study
- Saint-Petersburg government grant to students for studying success