KHORUZHII KIRILL

+7 981-783-07-84

khoruzhii.ka@phystech.edu

github.com/k1242

EDUCATION

Bachelor of General and Applied Physics | *in process*   2019 – until now

Moscow Institute of Physics and Technology | *GPA: 4.9 (9.1/10.0); Top 10%*   Moscow, Russia

WORK EXPERIENCE

Laboratory Assistant   October 2018 – May 2019

Academic University, Renewable Energy Laboratory   Saint Petersburg, Russia

- Spraying coatings
- Measurement of sample characteristics

Software Engineer   August 2020 – until now

Terra Quantum   Moscow, Russia

- search and preprocessing of datasets
- NLP in dialog systems
- State of the art results review

Junior researcher   August 2021 – until now

Russian Quantum Center, Ultracold Fermions Lab   Moscow, Russia

- Laser locking with doppler-free saturated absorption spectroscopy (theory)
- Laser locking with doppler-free saturated absorption spectroscopy (experiment)

PROJECTS AND RESEARCH

Development of antireflective coatings based on SiO_2/Si_3N_4   Spring 2019

Academic University, Renewable Energy Laboratory   Saint Petersburg, Russia

- Under the leadership of Dmitry Kudryashov, a coating was obtained, with the possibility of rapid spraying
- The article (doi.org/10.1088/1742-6596/1410/1/012101) was published following the results of the activity

Development of a corporate chat bot   August 2020 – until now

Terra Quantum

Laser locking with doppler-free saturated absorption spectroscopy   August 2021 – until now

Russian Quantum Center, ultracold fermions lab   Moscow, Russia

- Under the leadership of Andrey Turlapov, the parameters of the observed hyperfine structure were optimized
- Theoretical model was constructed, an analytical result was obtained in the approximation of a two-level system
- A numerical result was obtained and observed for a multilevel ^{7}Li system

COURSEWORK

Mathematics: Calculus, Analysis on Manifolds, Harmonic analysis, Linear Algebra, Complex analysis, Computational Mathematics, Equations of Mathematical Physics

Physics: Mechanics, Dynamical systems and chaos, Statistical Physics I, Field Theory, Quantum Physics

Informatics: Python, C++, Machine Learning, Advanced Deep Learning, Quantum computing, Mathematica

SKILLS

Languages: Russian (Native), English (B2)

Programming: *Python* (NLP, Image Processing, Time Series Processing), *Wolfram Language*, *MatLab*, C++

Other: LaTeX, Sublime Text, Git, Adobe Illustrator