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Mariia Kryvoruchko

Education

2019– **Moscow Institute of Physics and Technology**

Present B.Sc. School of Electronics, Photonics and Molecular Physics. Major: Applied Mathematics and Physics

Relevant coursework:

Physics: Thermodynamics, Electricity and Magnetism, Optics, Mechanics, Chemical Physics + over 30 personal and team educational practical laboratory works

Chemistry: Organic chemistry, Inorganic chemistry, Statistical Thermodynamics + 40 Organic and Inorganic synthesis, practice in Colloidal chemistry

Math: Multivariate Integrals and Field Theory, Probability Theory, Abstract and Linear Algebra, Statistics, Ordinary Differential Equations

Informatics: objective oriented programming, parallel programming, use GitHub

GPA:4.4/5

Projects

2021– "Investigate function o Membrane Proteins GPCRs" Advisor: A. Mishin
Present

2018-2019 "Investigate influence of phytoncides of medical plants on biofilm of *Pseudomonas aeruginosa*"
Advisor: Vorobey E.S.

2021-2022 "Investigation of X-ray absorption by various atoms" Advisor: Zhabin.S
International Tournament of Natural Sciences

2021 "Development of a method for using lignin to create a material" Advisor: Zinkovich R.

2021 "In silico study of substances for the use of vaping for medical purposes" Advisor: Zinkovich R.

Special courses

Coursera Getting started in Cryo-EM

Stepic Introduction to Molecular Biology and Biomedicine; Biotechnology: Genetic Engineering

Labaratory skills

Chemistry see Education

Physics see Education

Biological microbiological and cell culture; classification and identification of bacteria; mass spectroscopy; polymerase chain reaction

Computer skills

PYTHON Data analysis: Pandas, Numpy, visualisation with Matplotlib

C++ use Boost.Aasio for application

LabView ADC programming

Other LATEX, MATLAB

Languages

Ukrainian native

Russian native

English B2/C1

Hobbies

Sport Volleybol (playing in MIPT team), yoga

Other playing piano, acting on theatre