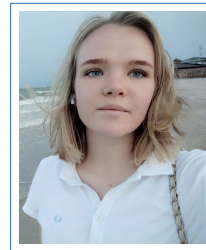


# Mariia Kryvoruchko

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## Education

2019– Present **Moscow Institute of Physics and Technology**  
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– Present "Investigate function of Membrane Proteins GPCRs" Advisor: A. Mishin
- 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

## Laboratory 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.Asio for application
- LabView ADC programming
- Other L<sup>A</sup>T<sub>E</sub>X, MATLAB

## Languages

- Ukrainian native
- Russian native
- English B2/C1

Hobbies

Sport

Volleybol (playing in MIPT team), yoga

Other

playing piano, acting on theatre

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