

Nastya Kirillova

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Education

"PHYSTECH-LYCEUM" TO THEM. P. L. KAPITZA

SCHOOL GRADUATE

- Physical and mathematical class

Moscow, Russia

Sep 2014 - June 2015

MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY (MIPT)

BACHELOR OF SCIENCES

- **Faculty:** Department of Molecular and Chemical Physics
- **Specialization:** Applied Mathematics and Physics
- **Thesis:** Study of the interaction of x-ray radiation with nanostructured materials
- **CGPA:** 4.65/5

Moscow, Russia

Sep 2015 - July 2019

MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY (MIPT)

MASTER OF SCIENCES

- **Faculty:** Department of General and Applied Physics
- **Specialization:** Applied Mathematics and Physics
- **Thesis:** Interaction of correlated X-ray radiation with nanostructures
- **CGPA:** 4.7/5

Moscow, Russia

Sep 2019 - July 2021

Skills

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|---------------------------------------|---|
| Programming | Python, C++, JavaScript, Pascal |
| Scripting and Markup Languages | SQL, MATLAB, LaTeX, HTML |
| Development Environments | Jupyter Notebook, PyCharm, MS Visual Studio, VSCode, TexStudio |
| Frameworks and Libraries | Pandas, NumPy, Matplotlib, Seaborn, SciPy, SciKit-Learn |
| Mathematical Disciplines | Calculus, Complex Analysis, Analytic Geometry, Linear Algebra, Probability Theory and Statistics, Ordinary and Partial Differential Equations, Computational mathematics, Combinatorics |
| Languages | Russian (Native), English (Upper-Intermediate), German (Intermediate), Turkish (Beginner) |

Experience

Freelance

TEACHER OF MATHEMATICS, PHYSICS AND COMPUTER SCIENCE

- Teaching programming in Python and C++ languages, algorithms and data structures, data analysis in Python for high school and junior students
- Teaching technical disciplines such as higher mathematics, mathematics statistics, probability theory and physics for students
- Preparing students for exams to admit institute and for passing sessions
- Assistance and advice on diploma and coursework in different fields

Antalya, Turkey

Sep 2019 - present

Laboratory of Nanocarbon Materials (MIPT)

LABORATORY ASSISTANT RESEARCHER

- Numerical simulation of the interaction of X-ray radiation with nanostructured materials using Python/C++
- Analytical solution of the equation for a simplified waveguide model using principles of quantum physics
- Speaking at scientific conferences and writing scientific articles

Moscow, Russia

Sep 2018 - Sep 2022