

# 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

<b>Programming</b>	Python (main), C++ (additional), JavaScript (rarely)
<b>Scripting and Markup Languages</b>	SQL, MATLAB, LaTeX, HTML
<b>Development Environments</b>	PyCharm, Jupyter Notebook, MS Visual Studio, VSCode, TexStudio
<b>Trading Platforms</b>	TradingView
<b>Frameworks and Libraries</b>	Pybit, Asyncio, Aiogram, Websocket, Pandas, NumPy, Matplotlib, Seaborn, SciPy, SciKit-Learn
<b>Mathematical Disciplines</b>	Calculus, Complex Analysis, Analytic Geometry, Linear Algebra, Probability Theory and Statistics, Ordinary and Partial Differential Equations, Computational mathematics, Combinatorics
<b>Languages</b>	Russian (Native), English (Upper-Intermediate), German (Intermediate), Turkish (Beginner)

## Experience

### MARCO Startup

PYTHON PROGRAMMER/CRYPTO MARKET ANALYST

- Development and testing of trading strategies, including market maker strategies, using Python libraries (pybit, websocket, TA-Lib, pandas, NumPy)
- Automation of trading processes through Bybit API
- Calculation of technical indicators and creation of Telegram bots for trader notifications (aiogram, asyncio)
- Development of custom algorithms for indicator calculations to avoid reliance on predefined values
- Data analysis, error detection, and proper candlestick data extraction for highly volatile assets such as DOGE and PEPE
- Working with the TradingView platform and writing Pine scripts
- Cryptocurrency market analysis
- Analysis of various DeFi protocols

Remote Work

May 2024 - Jan 2025

### 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

Moscow, Russia

Sep 2019 - Sep 2024

### 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