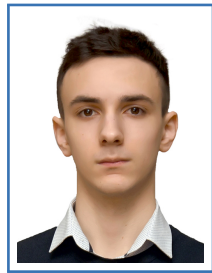


Yury Prokhorov

Curriculum Vitae




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3rd year student at MIPT



Education

- 2017–Present **BSc in Applied Mathematics and Physics**, *Moscow Institute of Physics and Technology*.
Currently a 3rd year student at the Department of Control and Applied Mathematics (DCAM). *Total GPA – 9.3 / 10*
- 2019–Present Institute for Information Transmission Problems and Data Analysis (IITP)

Experience & Projects

- C/C++ **Unix shell emulator**, , ICT class project.
A C++ program that runs in bash and emulates the main functional of unix shell.
- C++/Python **Sound track editor and classifier**, , final ICT class group project.
A final course project for the ICT class. A C++ API for various WAV files transformations has been created. Also a neural algorithm for musical instrument recognition has been written on Python. The project was supervised by Babichev S.L. ([read more](#))
- Python **Neural algorithm for variational calculus problems**, , optimization class project.
A flexible algorithm based on neural networks is proposed for solving different calculus of variations problems. The project is supervised by Merkulov D. ([read more](#))

Technical Skills

- PROGRAMMING Python, C++, C, SQL, Javascript, PHP, HTML, Latex
- LIBRARIES pytorch, tensorflow, keras, pillow, numpy, scipy, sklearn, matplotlib, etc.
- UTILITIES git, ssh, bash, Jupyter Notebook, Google Colab

Completed Courses

- MATHEMATICS Optimization Methods, Computational Mathematics, Linear Algebra, Stochastic Processes and Probability Theory, Calculus (I, II, III, IV), Functional Analysis, Differential Equations, Abstract Algebra, Discrete Mathematics (*Total GPA – 9.45 / 10*)
- COMPUTER SCIENCE Object Oriented Programming (C++), Operating Systems (Linux), SQL and Databases, Algorithms and Data Structures (*Total GPA – 9.8 / 10*)
- MACHINE LEARNING Introduction to Data Analysis, Mathematics and Python, Supervised and Unsupervised Learning, Neural Networks and Python ([view certificates](#))

Scholarships & Awards

- 2017–Present Increased State Academic Scholarship for educational achievements
- 2018–Present Phystech Foundation Scholarship for top-ranked students
- 2018 Prize winner at the mathematics olympiad among MIPT students

Languages

Russian (native), English (fluent, Advanced C1), German (basic)

Interests

Watching and playing football, psychology, dogs and other animals