Alim Bukharaev
Curriculum Vitae

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Education

2017–Present	**BSc in Applied Mathematics and Physics**, Chair of Information Transmission Problems and Data Analysis, Department of Control and Applied Mathematics, Moscow Institute of Physics and Technology, Moscow. Undergraduate student, 3rd year (current GPA 8.53/10).

Scholarships

2019–Present	Increased State Academic Scholarship Award for achievements in educational activity
2018–2019	Phystech Foundation Scholarship Award for top-ranked students of MIPT

Computer Skills

Programming	Python, C/C++, SQL
Libraries	pytorch, keras, tensorflow, opencv, numpy, scipy, pandas, matplotlib
Tools	Jupyter Notebook, git, ssh, PyCharm, Docker, SGE, TMUX, LaTeX

Publications

Neuroscience and Medical Data Analysis	**Adapting Probabilistic U-Net for Midline Shift Detection** IITP RAS (*the lab*) In co-authorship and under supervision of Junior Researcher Maxim Pisov and Dr. Mikhail Belyaev Published as part of the ITaS'19 conference (*the paper*, *the conference*, *poster and code*)

Projects & Experience

Deep Learning	**Musical Instruments Classification** ⍾ A part of MIPT 4th semester CS course Team project. A website for audio file editing was implemented. Was responsible for writing a neural network capable of distinguishing musical instruments by sound
CVision	**Testing Pixellink** ⍾ Laboratory of Hybrid Intelligent Systems, MIPT The goal of the project was to study how well a novel image-segmentation algorithm Pixellink ⍾ works in collaboration with some text-reading models
Data Science	**Spectral Analysis** ⍾ Supervisor Junior Researcher Artem Borzov, IITP RAS *Spectral Clustering Algorithm* (according to Ng, Jordan and Weiss) was implemented on the Yahoo music dataset and compared with other clustering algorithms
C/C++	**Bash emulator** ⍾ A part of MIPT third semester CS course An emulator of the GNU Bash was written on C++
C	**PDP-11 emulator** ⍾ A part of MIPT second semester CS course An emulator of the PDP-11 16-bit minicomputer was written on C

Coursework

Mathematics	Probability Theory*, Optimization Methods*, Computational Mathematics*, Calculus (I, II, III, IV), TFCV*, Functional Analysis*, Linear and Abstract Algebra, Algorithms and Models of Computation, Discrete Analysis, Basics of Statistics
Computer Science	Python Programming, Deep Learning (specialization by deeplearning.ai) *see cerificates*, Hardware/Software Interface, Operating Systems (GNU/Linux), OOP (C/C++)

* - to be completed by Feb 2020

Hobbies & Interests

Playing the guitar, English and Russian literature in the original, languages in general

Languages

English (Fluent), French (Basic), Russian and Tatar (Native)