EKATERINA IVSHINA

609 375-6334 ◇ ivshina@princeton.edu ◇ kateivshina.com

EDUCATION

Princeton University September 2019 - Present
Bachelor of Arts in Physics (minor: Statistics and Machine Learning)
Coursework: Honors Linear Algebra, Accelerated Honors Analysis, Applied Algebra, Probability Theory, Quantum Mechanics, Classical Mechanics, Electromagnetism, Thermal Physics and Statistical Mechanics, Research Methods in Astrophysics, Java Programming, Integrated Science Curriculum, Introductory Logic, Microeconomics

Specialized Scientific and Educational
Center of Ural Federal University September 2016 - June 2019
High School Diploma (Physics & Mathematics Concentration) Ekaterinburg, Russia
GPA: 4.0/4.0; SAT Math II: 800/800; SAT Physics: 800/800

Music School #16 September 2010 - June 2016
Concentration: Music Performance Ekaterinburg, Russia
GPA: 4.0/4.0

RELEVANT EXPERIENCE

Harvard Medical School, Martinos Center for Biomedical Imaging, Intern June 2020 - August 2020
- Implemented GANs, CNNs, and Computer Vision techniques for motion correction & denoising of diffusion MRI
- Performed training on a computing cluster

Princeton University, Mathematics Department, Teaching Assistant August 2020 - Present
- Lead problem solving sessions for the "Single Variable Analysis with an Introduction to Proofs" and "Honors Linear Algebra" classes

Princeton Dining Services, Student Worker January 2020 - April 2020
- Tasks included cleaning up the salad bar, the hot foods bar, wiping the tables, sweeping floors, and a general wrap-up for the front of dining area

Engineering Summer Academy at Penn, Robotics program (grade: A+) July 2018
- In team, designed in SolidWorks & programmed in Arduino a guitar playing robot from scratch (received A+)

Astrophysics Research Assistant, Kourovka Observatory, Russia August 2018 - December 2018

European Summer Program on Rationality, Oxford, UK August 2019

Yale Young Global Scholars Program, Engineering Session June 2018

Summer Research Intern, National Research Nuclear University MEPhI, Moscow June 2018

Engineering Research Intern, Sirius Educational Center, Sochi, Russia February 2018

MIT Global Teaching Labs, Cryptography Course (grade: A) January 2018

CONFERENCES

- "Space Physics" All-Russian college-level conference (Ural Federal University, Russia, 2018)
- National Winter School of Young Astronomer (Lomonosov Moscow State University, Russia, 2018)
- "Scientists of the Future" Research Conference (Lomonosov Moscow State University, Russia, 2018)

ACCOMPLISHMENTS

- Euro-Asian Astronomical Society Award (2018)
- Winner, "Scientists of the Future" international research competition (INTEL ISEF qualifying fair, 2018)
- Medal "For Outstanding Achievements in Studying" issued by the Ministry of Education of Russia
- All-Russian Astronomy Olympiad - ranked top 3 in state, top 50 nationally (2018, 2019)
- "PhysTech" National Physics Olympiad bronze medalist
- Invited to showcase my research to Prime Minister of India and President of Russia (2018)
- 20+ national and state awards for achievements in playing the Domra, a Russian folk string instrument