EKATERINA IVSHINA

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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

RELEVANT EXPERIENCE

Harvard Medical School, Martinos Center for Biomedical Imaging, Intern   June 2020 - Present
- 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+)

European Summer Program on Rationality, Oxford, UK   August 2019
Yale Young Global Scholars Program, Engineering Session   June 2018
MIT Global Teaching Labs, Cryptography Course (grade: A)   January 2018

ACCOMPLISHMENTS

- All-Russian **Astronomy Olympiad** - ranked top 3 in state, top 50 nationally (2018, 2019)
- Invited to showcase my research to **Prime Minister of India** and **President of Russia** (2018)
- **Euro-Asian Astronomical Society Award** (2018)
- Winner, "Scientists of the Future" international research competition (INTEL ISEF qualifying fair, 2018)
- **20+ national and state awards** for achievements in playing the Domra, a Russian folk string instrument