UranMaimekov

Curriculum Vitae

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⊕ *UranMai*

Education

Present	**Master of Science in Mathematics and Physics, Department of Bio–Medical Physics**, *Moscow Institute of Physics and Technology (National Research University)*, Moscow, Russia. Specialization: **Bioinformatics and System Biology**
2015–2018	**Bachelor of Science in Mathematics and Physics, Department of General and Applied Physics**, *Moscow Institute of Physics and Technology (National Research University)*, Moscow, Russia. Specialization: **Biophysics**
2008–2015	**High school**, *Physical and Mathematical lyceum 61*, Bishkek, Kyrgyzstan.

Research and Work Experience

Present	**MSc qualification work. Scoltech iMolecule**, Skoltech, Moscow. Research project: Machine learning in molecular dynamics
31.07.20 27.07.20	**Summer online school: AI for medical images**, Innopolis, Sochi, Kazan, Russia. Computer vision and analysis of medical images, their modality
summer 2019	**Internship**, IST Austria Vienna. **Sazanov group: Structural biology of membrane protein complexes** – Optimize particle picking on cryo-EM micrographs. – Use particle picking programs based on NNs – Write scripts in Python and Bash to optimize the work and results
2019.07 2018.08	**BSc qualification work**, Department of Biophysics, MIPT, Moscow. **Project:** Study the influence of the antioxidants on mitochondria health in the oxidative stress conditions – Study the behaviour of mitochondria using fluorescent dyes – Analyze cytometer and microscope results – Obtain images of treated cell from fluorescent microscopy – Using ImageJ (Fiji) to process the images of chromosomes and telomeres
2018.10	**61st MIPT Scientific Conference**, Dolgoprudny and Moscow. – Poster on the topic "Research the antioxidants influence on the telomeres length"
summer 2017	**Internship**, *Laboratory of Ion and Molecular Physics*, MIPT, Moscow. Research project: The application of tandem mass spectrometry to identify molecular biomarkers for early diagnosis of Alzheimer's disease

Each year	**MIPT olympiads in physics and math**. – Organize olympiads – Student jury
2016	**Maxwell Olympiad in physics**, Sochi, Russia. – Student-jury of the final step of physics olympiad

Awards

2018	**Prize for the best poster**, 61st MIPT Scientific Conference, Moscow, Russia.
2015	**46th IPHO**, International Physics Olympiad (IPhO), Mumbai, India.
2015	**Absolute place**, National Physics Olympiad, Bishkek, Kyrgyzstan.
2014	**2nd Place**, National Physics Olympiad, Bishkek, Kyrgyzstan.

Technical Skills

Programming	Github: **UranMai**, Python (PyTorch, Scikit-learn, NumPy, Plotly, etc.), LaTeX, Bash, R, SQL, Git, Flask
Own projects	Covid19 spread-map (Plotly, Folium), Cancer images (CV), IMDB Movie reviews (NLP)
Scientific skills	Docking software: ICM Pro, Smina; Life Sceince: Fluorescence confocal microscopy, PCR, Gel Electrophoresis
Online courses	Machine Learning, Deep Learning (Andrew Ng, Coursera), Statistics

Languages

Kyrgyz	Fluent
Russian	Fluent
English	Upper-Intermediate (B2/C1)
German	Intermediate (A2/B1)