

Olga Eduardovna Pushkova

PERSONAL DATA

DATE OF BIRTH: 24 March 2002	TELEGRAM: https://t.me/Olgaa_Pushkova
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EDUCATION

2024-PRESENT	MASTER'S DEGREE IN MATHEMATICS AND COMPUTER SCIENCE APPLIED COMPUTATIONAL MECHANICS PROGRAM Skolkovo Institute of Science and Technology , Moscow, Russia Advisor: Prof. Alexander Kvashnin
2020-2024	BACHELOR'S DEGREE IN MATERIALS SCIENCE AND TECHNOLOGY OF MATERIALS INSTITUTE OF NEW MATERIALS National Research Institute of Science and Technology MISIS , Moscow, Russia Advisor: Prof. Alexander Kvashnin GPA: 4.0/5.0

WORK EXPERIENCE

SEP 2024 - PRESENT	INDUSTRY-ORIENTED COMPUTATIONAL DISCOVERY AT SCOLTECH, MOSCOW Student researcher Computational search for novel materials with optimal desired properties. Applying machine learning techniques to analyze databases, particularly symbolic regression techniques.
SEP 2023 - DEC 2023	PCETE AT SCOLTECH, MOSCOW Technician Using symbolic regression techniques to develop descriptors for predicting and analyzing material properties; Training of models based on symbolic regression to develop a descriptor to describe the biological activity of SAR-like compounds.
JULY 2023 - AUGUST 2024	PCETE AT SCOLTECH, MOSCOW Practice Structure-property relationship research for nanoparticles by symbolic regression methods (SISSO).
SEP 2021 - SEP 2023	NUST MISIS, MOSCOW SMM manager and designer in different student communities

PROJECTS

EFFECTIVE ALLOY CATALYSTS FOR HYDROGEN PRODUCTION	COMPLETED PROJECT Development of a new catalytic material based on a high-entropy alloy for use in the electrolytic splitting of water to produce hydrogen. This alloy acts as a catalyst to significantly reduce energy consumption in the production of hydrogen by electrolytic splitting of water.
PREDICTING THE ADSORPTION ENERGY OF NANOPARTICLES	CURRENT PROJECT Prediction of adsorption energies of nanoparticles and nanoalloys using different machine learning methods.

TECHNICAL SKILLS

Programming languages: Python, C#, SQL
Deep Learning Frameworks: PyTorch, TensorFlow, scikit-learn, SISSO, M3GNet
Libraries: NumPy, Pandas, Scipy, Matplotlib, Seaborn,
Other Libraries: ASE, Pymatgen, Matminer, Dscribe
VCS: Git
Operating Systems: Ubuntu, Windows
Other Software: MS-Office, VS-Code, LaTeX, VESTA, KOMPAS 3D, Figma, Miro

SOFT SKILLS

LANGUAGES English - Upper-Intermediate
Russian - Native

SOFT SKILLS Teamwork experience
Ability to create graphic content for publications and presentations

EXTRA CURRICULAR ACTIVITIES

PARTICIPATION IN THE CONFERENCE 2024	Participation in the 66th Russian National Scientific Conference of MIPT Speaker
PARTICIPATION IN THE CONFERENCE 2024	Participation in the 79th Days of Science of MISIS University Speaker
PARTICIPATION IN THE CONFERENCE 2024	Participation in XXIV Annual Youth Conference with international participation Institute of Biochemical Physics of the Russian Academy of Sciences 'BIOCHEMICAL PHYSICS'. Poster presentation

INTERESTS AND ACTIVITIES

Design, graphic arts
Books/films/games fantasy, sci-fi and documentaries
Python programming
Maths tutoring