

Aleksandr Popkov

Email: alr.popkov@gmail.com

7 YoE with machine learning projects that include forecasting, panel data analysis, computer vision, NLP. 3 YoE in biology research projects with computer vision application, 2 RScF research grants participation.

EXPERIENCE

Research Associate

Feb 2024 – Present

Zoological Institute of Russian Academy of Sciences, Saint Petersburg, Russia

- Lycaenidae butterflies ultraviolet image clustering with neural networks
- Lycaenidae butterflies image classification with deep neural networks

Sr. Data Scientist

Aug 2022 – Present

“GazpromNeft Regional Sales”, LLC, Saint Petersburg, Russia

- LLM Q&A application development for corporate systems
- HR research interviews summarizing and classification
- Machine learning project planning, leading, and development

Research Laboratory Assistant

Jun 2020 – Dec 2022

Zoological Institute of Russian Academy of Sciences, Saint Petersburg, Russia

- Deep neural network applications for hard-to-distinguish true bug species (Heteroptera) identification
- Development of *Eurygaster* spp. pest classification service, phylogenetic tree analysis package “pyiwe”

Research Intern

Sep 2020 – Dec 2020

Saint Petersburg State University, Saint Petersburg, Russia

- Review of multi-armed bandit papers

Data Scientist

Nov 2018 – Aug-2022

“GazpromNeft Regional Sales”, LLC, Saint Petersburg, Russia

- Edge-computing-based computer vision system development for petrol stations
- Development of forecasting models with probabilistic language Stan
- Treatment effect estimation in randomized trials
- Intern mentor. Topics: object detection with deep learning, speech processing

Analytics Intern

Feb 2017 – Apr 2017

“GazpromNeft Center”, LLC, Saint Petersburg, Russia

- Statistical analysis and hypothesis testing
- Customer segmentation with machine learning

EDUCATION	Saint Petersburg State University, Saint Petersburg, Russia	2020
	<i>MSc in Business Informatics</i>	
	Saint Petersburg State University, Saint Petersburg, Russia	2018
	<i>BSc in Economics, Mathematical and Statistical Methods</i>	
RESEARCH INTERESTS	Interpretable machine learning, natural language and speech processing, mathematical reasoning of language models, efficient machine learning, multimodal learning, deep learning in computer vision	
SKILLS	<ul style="list-style-type: none"> • Programming: Python, Cython, C, bash • Deep learning: PyTorch, TensorFlow 2, Keras • Databases: relational (PGSQL, MSSQL, MySQL), vector (Milvus, ChromaDB) • Experience in edge-computing including NVIDIA Jetson Nano, NX, AGX Xavier computing boards, eGPU setups • Open source contributor: "causalml", "shap", "featureform" 	
LANGUAGES	<ul style="list-style-type: none"> • Russian (native) • English (fluent) • Japanese (beginner) • German (beginner) • French (beginner) 	