

# Aleksandr Popkov

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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**  
*MSc in Business Informatics*

**Saint Petersburg State University, Saint Petersburg, Russia**      **2018**  
*BSc in Economics, Mathematical and Statistical Methods*

**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**

- 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**

- Russian (native) • English (fluent, TOEFL 106/120) • Japanese (beginner) • German (beginner) • French (beginner)