

Nikita Kiselev

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EXPERIENCE

Sber AI
Intern Jun 2024 – Present

Laboratory of Mathematical Methods of Optimization
Technician Oct 2023 – Apr 2024

ACHIEVEMENTS

- **Spring 2023-2024:** 3rd degree personal scholarship for contributions to the development of numerical optimization methods
- **Fall 2023-2024:** K.V. Rudakov scientific academic scholarship for research activities in the field of applied mathematics
- **Fall 2023-2024:** 3rd degree personal scholarship for contributions to the development of numerical optimization methods
- **2020-2023:** Abramov scholarship for 1-3 year bachelor students with the best grades at MIPT

PROJECTS

- **Sample Size Determination: Posterior Distributions Proximity**
Two approaches to determining a sufficient sample size based on the proximity of posterior distributions of model parameters on similar subsets
- **Forecasting fMRI Images From Video Sequences: Linear Model Analysis**
Using linear models and testing hypotheses about the relationship between data
- **Models of epidemic spread, in particular COVID-19 as a model of stochastic chemical kinetics**
Various approaches to modeling the spread of epidemics, differential equations and Markov processes
- **Optimization methods for quadratic problems with large dimensionality**
Comparison of different methods of solving high-dimensional linear regression problems
- **Intelligent Presentation Generator**
Application for generating presentations based on text files using topic modeling

TALKS

- **66th MIPT All-Russian Scientific Conference** – April 6, 2024
Determining a sufficient sample size based on the a posteriori distribution of model parameters

SUMMARY

Aspiring researcher in the field of machine learning and optimization. Focused on **generative diffusion and multimodal models**. Motivated for productive work and learning. Having a substantial theoretical foundation and mathematical background.

SKILLS

DL	PyTorch, TensorBoard, Huggingface
ML	NumPy, SciPy, Pandas
OS	macOS, Windows
Misc.	L ^A T _E X
Soft Skills	Responsibility, Dedication

EDUCATION

MIPT **Moscow, Russia**
BSc in Applied Mathematics and Physics

- Thesis:
Bayesian Sample Size Estimation
- Advisor:
Andrey Grabovoy
- GPA: 4.88/5 (honors)

LANGUAGES

- Russian (Native)
- English (Advanced)

INTERESTS

- Gym
- Guitar