

# Nikita Kiselev

Moscow, Russia

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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

<b>DL</b>	PyTorch, TensorBoard, Huggingface
<b>ML</b>	NumPy, SciPy, Pandas
<b>OS</b>	macOS, Windows
<b>Misc.</b>	L <sup>A</sup> T <sub>E</sub> X
<b>Soft Skills</b>	Responsibility, Dedication

## EDUCATION

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

- Thesis: Bayesian Sample Size Estimation
- Advisor: Andrey Grabovoy
- GPA: 4.88/5 (8.91/10)

## LANGUAGES

- Russian (Native)
- English (Advanced)

## INTERESTS

- Gym
- Guitar