

# Nikita Kiselev

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## EDUCATION

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**Moscow Institute of Physics and Technology**

*BSc in Applied Mathematics and Physics*

**Moscow, Russia**

*Sep 2020 – Present*

- Thesis: "Bayesian Sample Size Estimation",  
Advisor: Grabovoy Andrey
- GPA – 4.88/5, 8.91/10

## WORK EXPERIENCE

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**Laboratory of Mathematical Methods of Optimization, MIPT**

*Technician*

**Moscow, Russia**

*Oct 2023 – Present*

## SKILLS

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- **Research interests:** Optimization, Deep Learning, Machine Learning
- **Maths:** Statistics, Probability, Algorithms, Calculus, Linear Algebra
- **Programming:** Python, C, C++, Git
- **LaTeX**
- **Operating Systems:** Mac OSX, Linux, Microsoft Windows

## LANGUAGES

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- **Russian:** mother tongue
- **English:** B2

## INTERESTS

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- Going to the gym
- Playing the guitar

## PROJECTS

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### Research.....

- **Bayesian Sample Size Estimation**  
Estimating a sufficient sample size in supervised learning using the likelihood function
- **Decentralized optimization with coupled affine constraints**  
Ongoing project ...

- **Recovery of fMRI scans from the viewed video sequence**  
Using linear models and testing hypotheses about the relationship between data

## **Educational** .....

- **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

## **SCHOLARSHIPS, HONORS AND AWARDS**

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- **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