Nikita Kiselev

Krasnogorsk, Moscow Region, Russia
✉ kiselev.ns@phystech.edu • in kisnikser • ⚫ kisnikser
⚫ kisnikser • 🌐 kisnikser.github.io

EDUCATION

Moscow Institute of Physics and Technology   **Moscow, Russia**
BSc in Applied Mathematics and Physics   *Sep 2020 – Present*
- Thesis: Bayesian Sample Size Estimation
  Advisor: Andrey Grabovoy
- GPA: 4.88/5 (8.91/10)

WORK EXPERIENCE

Laboratory of Mathematical Methods of Optimization, MIPT   **Moscow, Russia**
Technician   *Oct 2023 – Apr 2024*

PUBLICATIONS

Submitted

- **N. Kiselev**, A. Grabovoy
  Sample Size Determination: Posterior Distributions Proximity
  Journal of Computational and Applied Mathematics

TALKS

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

PROJECTS

Research

- **Bayesian Sample Size Estimation**
  Posterior distributions proximity and likelihood estimation in the problem of sufficient sample size determination
- **Forecasting fMRI Images From Video Sequences: Linear Model Analysis**
  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

- **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

SKILLS

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

LANGUAGES

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

INTERESTS

- **Going to the gym**
- **Playing the guitar**

Last updated on April 11, 2024