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EDUCATION

Moscow Institute of Physics and Technology

BSc in Applied Mathematics and Physics

Moscow, Russia

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

Technician

Moscow, Russia

Oct 2023 – Present

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

TALKS

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

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 7, 2024