Matvey Morozov

Education

2016 – Pres. **Moscow Institute of Physics and Technology**, Bachelor student, 3rd year.
Department of Control and Applied Mathematics
Field of study: Applied Mathematics and Physics
Specialisation: Data Analysis, Institute for Information Transmission Problems
Supervisor: Alexey Zaytsev, PhD, IITP RAS, Scoltech
GPA: 4.61/5.00

Main courses:

- Machine Learning
- Optimization Methods
- Computational Mathematics
- Functional Analysis
- Stochastic Processes
- Calculus, Complex Analysis
- Linear and Abstract Algebra
- Probability Theory
- Algorithms, Discrete Analysis
- CS, Database Design
- General Physics
- Theoretical physics

Online Courses:
- Mathematics and Python for Data Analysis (by Yandex and MIPT in Coursera)
  Link to certificate
- Supervised Learning (by Yandex and MIPT in Coursera)
  Link to certificate
- Unsupervised Learning (by Yandex and MIPT in Coursera)
  Link to certificate

Projects & Practical Experience

Feb.-Apr. 2019 **Minimax covariance function**.
Supervisor: Alexey Zaytsev, PhD, IITP RAS, Scoltech
The problem of approximation of smooth processes and functions by Gaussian stochastic processes was solved. The minimax covariance function was found that was used in the regression model.

Apr. 2018 **Solving the regression problem using the method of smoothing splines**.
The algorithm for finding smoothing splines for the optimal time compared to direct implementation was created and implemented

2016 - 2019 **Laboratory work in physics**.
Approximately 40 educational practical laboratory works in mechanics, thermodynamics, electromagnetism, optics and quantum physics in MIPT laboratories

Technical skills

Programming — PYTHON, C
Scientific Libraries — NumPy, SciPy, pandas, matplotlib, scikit-learn, GPy, XGBoost
Professional software — LaTeX, Github

Languages

English — B2
Russian — Native

Hobbies & Extra Activities

- Skiing, Running
- Curator responsible for first year students

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