# Andrey Veprikov

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## Education

**Moscow Institute of Physics and Technology (MIPT)**  *Moscow, Russia*
B.S. in Applied Mathematics and Physics  *Sept 2020 - Present*

- Phystech-School of Applied Mathematics and Computer Science, direction «Applied mathematics and physics»
- Department of Intelligent systems
- Weighted GPA on ten-point scale: 8.93

**Coursera**  *Moscow, Russia*
Online courses  *June 2021 - October 2021*

- Specialization «Machine learning and data analysis» by Yandex
- Course «Python for data analysis» by Mail.ru

## Work Experience

**Scoltech**  *Moscow, Russia*
ML and research intern  *June 2022 - September 2022*

- Creating ML model
- Writing scientific article about detecting change points in various sequences using ML algorithms
- Presentation at the 65th MIPT conference in the section of intelligence data analysis problems

**Laboratory of mathematical methods of optimisation**  *Dolgoprudny, Russia*
Research scientist  *August 2023 - Present*

- Writing research papers about mathematical methods of optimisation

## Projects

**On the problem of repeated supervised learning**  *Dolgoprudny, Russia*
Moscow Institute of Physics and Technology (MIPT)  *Feb 2023 - Present*

- Research paper about artificial intelligence systems as they interact with and influence their environment
- The research is scheduled to be published in the journal Information Systems Frontiers or its equivalents
- Also planned to present a paper at the Mathematical Methods of Pattern Recognition (MMPR) 2023 conference

**Zero-order method Jaguar**  *Dolgoprudny, Russia*
Moscow Institute of Physics and Technology (MIPT)  *Feb 2023 - Present*

- Research paper about zero-order optimization
- The paper is planned for submission to the conference AISTATS

**SQL-database «TV channel»**  *Dolgoprudny, Russia*
Moscow Institute of Physics and Technology (MIPT)  *Sep 2020 - Dec 2021*

- Creating my own SQL-database for the TV channel in MS SQL

**Final projects**  *Moscow, Russia*
Coursera  *June 2021 - October 2021*

- Project «Internet user identification» on Yandex specialization
- Project «Computer vision using neutron networks» on Mail.ru course

**ML computer vision projects**  *Dolgoprudny, Russia*
Moscow Institute of Physics and Technology (MIPT)  *September 2021 - December 2021*

- Transforming perfect photos
- Identifying clouds from a photo

## Publications

### JOURNAL ARTICLES

Non-Smooth Setting of Stochastic Decentralized Convex Optimization Problem Over Time-Varying Graphs
  Aleksandr Lobanov,  Andrew Veprikov,  Georgiy Konin,  Aleksandr Beznosikov,  Alexander Gasnikov,  Dmitry Kovalev
  *Computational Management Science* (2023). 2023

# Additional education

**Management, information and optimisation named after B. T. Polyak**  *Nizhny Novgorod, Russia*
MIPT, HSE, MSU, Wildberries  *June 2023*
- School on Optimisation Methods and Machine Learning, where the development of Boris Theodorovich Polyak's ideas in modern science was discussed

**Intensive on reproducing state-of-the-art scientific results**  *Sochi, Sirius, Russia*
Yandex  *October 2023 (to be in the future)*
- Lectures on modern scientific and engineering achievements in the IT sphere, team work on projects to reproduce experiments from scientific articles and conclusions about their sustainability

# Skills

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|---|---|
| **Programming** | Python (PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas etc.), C/C++, SQL, Algorithms and data structures . |
| **Miscellaneous** | Linux, LaTeX, Microsoft Office, Git |
| **Math** | Numerical optimization, Probability theory, Linear algebra, Mathematical analysis |
| **Languages** | English (C1), Russian |

# Achievements

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|---|---|---|
| 2020 | **Gold Medal,** Graduating with honors from school | *Izhevsk* |
| 2020 | **Grant,** Grant for gifted children of the Udmurt Republic | *Izhevsk* |
| 2022 | **Scholarship,** Abramov scholarship | *MIPT* |
| Present | **Scholarship,** Excellent grades scholarship | *MIPT* |
| Present | **Scholarship,** Contribution to the development of numerical methods of optimization | *MIPT* |