

Aleksandr Bogdanov

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Education

Physics and Mathematics Lyceum №239

Secondary School

- Weighted GPA on five-point scale: 4.71

Saint-Petersburg, Russia

Sept 2013 - June 2020

Moscow Institute of Physics and Technology (MIPT)

B.S. in Applied Mathematics and Physics

- Phystech-School of Applied Mathematics and Computer Science, direction «Applied mathematics and physics»
- Department of Intelligent Systems
- Weighted GPA on ten-point scale: 8.71
- Graduate qualification paper on «Gradient approximation using zero-order oracle and memorisation techniques».
- Red Diploma

Moscow, Russia

Sept 2020 - June 2024

Moscow Institute of Physics and Technology (MIPT)

M.S. in Computer Science and Engineering

- Phystech-School of Applied Mathematics and Computer Science, direction «Computer Science and Engineering»
- Department of Mathematical Fundamentals of Control
- Weighted GPA on ten-point scale: -

Moscow, Russia

Sept 2024 - Present

Yandex School of Data Analysis

Additional education

- Specialization «Machine learning developer»

Moscow, Russia

Sept 2023 - Present

Work Experience

Laboratory of mathematical methods of optimisation (MIPT)

Research scientist and assistant

- Writing research papers about mathematical methods of optimisation
- Assistant at the course «Optimization Methods»

Moscow, Russia

Au 2023 - Present

Department of Mathematical Fundamentals of Control (MIPT)

Assistant and teacher

- Assistant at the course «Theory and Implementation of Programming Languages»
- Assistant at the course «Algorithms and Models of Computation»
- Assistant at the course «Theory of algorithms and models of computation»
- Assistant at the course «Optimization Methods»
- Process debugging on the course «Optimisation Methods»
- Teacher on the course «Optimisation Methods».

Moscow, Russia

Sept 2022 - Present

Yandex.Research (Yandex)

Research scientist

- Writing research papers on mathematical methods of optimisation and machine learning

Moscow, Russia

Au 2024 - Present

Projects

SQL-database «Canteen»

Moscow Institute of Physics and Technology

- Creating my own SQL-database for the Canteen in MS SQL

Moscow, Russia

Sept 2020 - Dec 2021

Zero-order method Jaguar

Moscow Institute of Physics and Technology

- Research paper about zero-order optimization

Moscow, Russia

Feb 2023 - Present

Quantisation

Yandex.Research

- Research paper about quantisation

Moscow, Russia

June 2024 - Present

Research visits

Management, information and optimisation named after B. T. Polyak

Nizhny Novgorod, Russia

MIPT, HSE, MSU, Wildberries

July 2023

- School on Optimisation Methods and Machine Learning, where the development of Boris Theodorovich Polyak's ideas in modern science was discussed

Management, information and optimisation named after B. T. Polyak

Novosibirsk, Russia

MIPT, HSE, MSU, RRI

July 2024

- School on Optimisation Methods and Machine Learning, where the development of Boris Theodorovich Polyak's ideas in modern science was discussed

Skills

Machine learning	• Machine learning
	• Reinforcement learning
	• Time series
	• Bayesian learning
	• Recommendation Systems
Programming	C/C++, Python, GO, SQL, assembler
Miscellaneous	Linux, \LaTeX , Microsoft Office, Git
Math	• Numerical optimization
	• Probability theory
	• Linear algebra
	• Mathematical analysis
Languages	• Mathematical statistics
	English (C1), Russian (Mothertongue)

Achievements

2022	Scholarship , Excellent grades scholarship	MIPT
2022-2023	Scholarship , Abramov scholarship	MIPT
2024	Scholarship , Contribution to the development of numerical methods of optimization	MIPT
2024	Scholarship , Rudakov scholarship	MIPT
2024	Red diploma , Red bachelor's diploma	MIPT