

# Aleksandr Bogdanov

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## Education

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### 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
- 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

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### 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

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### 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

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