

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: 9.50

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 optimization
- Assistant (2023y) at the course «Optimization Methods»
- Methodologist for writing at the course «Optimization Methods»

Moscow, Russia

Au 2023 - Present

Laboratory of MIPT - Yandex (MIPT)

Research scientist

- Writing research papers about mathematical methods of optimization

Moscow, Russia

Au 2023 - Present

Department of Mathematical Fundamentals of Control (MIPT)

Assistant and teacher

- Assistant (2022y) at the course «Theory and Implementation of Programming Languages»
- Assistant (2023y) at the course «Algorithms and Models of Computation»
- Assistant (2023y) at the course «Theory of algorithms and models of computation»
- Assistant (2024y) at the course «Optimization Methods»
- Senior teacher (2024y) on the course «Optimisation Methods»
- Teacher (2024y) 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

Central University (CU)

Senior Assistant

- Senior Assistant at the course «Linear Algebra»..

Moscow, Russia

Sept. 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

Quantisation

Yandex.Research

- Research paper about quantisation

Moscow, Russia
June 2024 - Present

Publications

ARTICLES

New aspects of black box conditional gradient: Variance reduction and one point feedback
Andrey Veprikov, Aleksandr Bogdanov, Vladislav Minashkin, Aleksandr Beznosikov
Chaos, Solitons & Fractals (Q1) 189 (2024) p. 115654. 2024

CONFERENCES

Application of zero-order stochastic approximation with memoisation technique in the Frank-Wolfe algorithm
Aleksandr Bogdanov, Andrey Veprikov, Vladislav Minashkin, Aleksandr Beznosikov
66 conference MIPT, 2024

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

	<ul style="list-style-type: none">• Machine learning• Reinforcement learning• Time series• Bayesian learning• Recommendation Systems• Computer vision• Natural Language Processing• Generative models
Machine learning	
Programming	C/C++, Python, GO, SQL, assembler
Miscellaneous	Linux, \LaTeX , Microsoft Office, Git
	<ul style="list-style-type: none">• Numerical optimization• Probability theory
Math	<ul style="list-style-type: none">• Linear algebra• Mathematical analysis• Mathematical statistics
Languages	English (C1), Russian (Mohtertongue)

Achievements

2022	Scholarship , Excellent grades scholarship	MIPT
2022-2023	Scholarship , Abramov scholarship	MIPT
2024	Scholarship , Rudakov scholarship	MIPT
2024	Red diploma , Red bachelor’s diploma	MIPT
2024-2025	Scholarship , Contribution to the development of numerical methods of optimization	MIPT
2024-2025	Scholarship , Enhanced state academic scholarship	MIPT