

Aleksandr Beznosikov

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EDUCATION

Moscow Institute of Physics and Technology

BSc in Applied Mathematics and Physics

Moscow, Russia

Sep 2016 – Present

- GPA – 3.99/4, 4.99/5, 9.3/10

RESEARCH INTERESTS

- Stochastic Optimization
- Distributed Optimization
- Machine Learning
- Federated Learning

PUBLICATIONS

- A. Beznosikov, S. Horváth, P. Richtárik, M. Safaryan. **On Biased Compression for Distributed Learning**, arXiv preprint arXiv:2002.12410 (November 2019)
- A. Beznosikov, E. Gorbunov, A. Gasnikov. **Derivative-Free Method For Decentralized Distributed Non-Smooth Optimization**, arXiv preprint arXiv:1911.10645 (November 2019)

CONFERENCE TALKS

- 2 December 2019, Quasilinear Equations, Inverse Problems and Their Applications 2019, Moscow, Russia, A. Beznosikov, E. Gorbunov, A. Gasnikov "A Derivative Free Method for Distributed Optimization"
- 23 November 2019, The 62th MIPT Conference, Moscow, Russia, A. Beznosikov, E. Gorbunov, A. Gasnikov "Derivative-Free Sliding For Distributed Optimization", **winner**
- 25 November 2017, The 60th MIPT Conference, Moscow, Russia, A. Beznosikov, K. Teimurazov "The problem of creating models of the electronic queue and student accounting system and their application in practice", **winner**

RESEARCH VISITS

- 9 January – 12 February 2020, Visual Computing Center, KAUST, Thuwal, Saudi Arabia (worked with Peter Richtárik)

TEACHING

Moscow Institute of Physics and Technology

Teaching assistant at the Department of Mathematical Fundamentals of Control

Moscow, Russia

Sep 2017 - Present

- Fall 2017: Databases
- Fall 2018: Databases
- Fall 2018: Discrete analysis
- Fall 2019: Discrete analysis
- Fall 2019: Probability theory

- Spring 2020: Stochastic process

Summer school in Physics and Mathematics Lyceum

Director, Head of teaching staff

Syktyvkar, Russia

Aug 2018, Aug 2019

- Summer school for gifted children from provincial towns and villages

COMPUTER SKILLS

- Programming Language: **Python, C#, C++, C, SQL**
- \LaTeX
- Operating Systems: **Microsoft Windows, Linux, Mac OSX**

LANGUAGE

- **Russian:** [Mothertongue]
- **English:** [Upper Intermediate]

INTERESTS

- **Basketball:** Candidate Master of Sports in Russia

SCHOLARSHIPS, HONORS AND AWARDS

University

2016 - Present

- **2018-2019** Increased State Academic Scholarship for 4 year bachelor and master students at MIPT
- **2018-2019** Author of problems and organizer of the student olympiad in discrete mathematics
- **2017:** First Prize at MIPT's Team Mathematical Tournament
- **2017-2019:** Abramov scholarship for 1-3 year bachelor students with the best grades at MIPT

School

2016 and earlier

- **2015:** Silver medal in IEPHO (International Experimental Physics Olympiad)
- **2014-2015:** Russian President's Scholarship, for high school student
- **2015:** Prize-Winner, All-Russian School Physics Olympiad, Final Round
- **2014:** Prize-Winner, All-Russian School Physics Olympiad, Final Round
- **2014-2015:** Russian President's Scholarship, for high school student
- **2015-2016:** Winner, All-Russian School Programming Olympiad, Region Round
- **2014-2016:** Winner, All-Russian School Physics Olympiad, Region Round
- **2014-2016:** Winner, All-Russian School Maths Olympiad, Region Round