

Rustem Islamov

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EDUCATION

Master of Science in Applied Mathematics and Physics

[Moscow Institute of Physics and Technology](#)

Sept. 2021 – Pres.

Dolgoprudny, Russia

Master of Science in Applied Mathematics

[Institut Polytechnique de Paris](#)

Sept. 2021 – Pres.

Palaiseau, France

Bachelor of Science in Applied Mathematics and Physics

[Moscow Institute of Physics and Technology](#)

GPA: 4.96/5 (9.27/10), Top 3 at the department

Sept. 2017 – July 2021

Dolgoprudny, Russia

RESEARCH INTERESTS

Machine Learning, Optimization, Distributed Optimization

PROJECTS AND EXTRA ACTIVITIES

Introduction to Scientific work

Feb. 2020 - May 2020

- Course name: My First Scientific Paper
- Supervisor: [Vadim Strijov](#)
- Brief Description: Learned how to write scientific papers, organize work within a group
- Analysis of the ensemble of local models, [paper on Github](#) (in Russian)

Project on Optimization Methods

Apr. 2020

- Brief Description: Implemented different Optimization methods for improving the quality of classification models (Logistic Regression, SVM), methods for Trend Filtering
- [Project on Github](#)

Mathematics and Python for Data Analysis in Coursera

Feb. 2020

- Brief Description: Learned Mathematics for Data Analysis and how to use it in Python
- [Certificate](#)

Introduction to Programming (C++)

Jul. 2016

- Brief Description: Learned C++ for solving different mathematical and programming problems
- [Certificate](#)

LANGUAGES

Russian: Native

English: Advanced (C1)

French: Elementary (A1)

TECHNICAL SKILLS

Operating Systems: Microsoft Windows, Linux

Programming Languages: Python, C/C++

Professional Software: Git, LaTeX, SQL

HOBBIES AND INTERESTS

Football, member of student football team

Basketball

Teaching, preparing schoolchildren for olympiads

PUBLICATIONS

3. [X. Qian, R. Islamov, M. Safaryan, P. Richtárik](#). **Basis Matters: Better Communication-Efficient Second Order Methods for Federated Learning**, in [Proc. of the 25th International Conference on Artificial Intelligence and Statistics](#), 2022.
2. [M. Safaryan, R. Islamov, X. Qian, P. Richtárik](#). **FedNL: Making Newton-Type Methods Applicable to Federated Learning**, accepted to [FL-ICML 2021](#) and [BFOM-ICML 2021](#) workshops, arXiv preprint: [arXiv:2106.02969](#), 2021.
1. [R. Islamov, X. Qian, P. Richtárik](#). **Distributed Second Order Methods with Fast Rates and Compressed Communication**, In [Proc. of 38th International Conference on Machine Learning](#), 2021.

SCHOLARSHIPS, HONORS AND AWARDS

Scholarship in Belotserkovsky O. M. name Given to support students who are actively engaged in research and Olympiad activities in the field of Computer Science 15 000 Russian roubles per month	Feb. 2022 – June. 2022
Increased State Academic Schholarship Given for 4 year Bachelor and Master students at MIPT with scientific achievements 16 000 Russian roubles per month	Feb. 2022 – June. 2022
Scholarship for Contribution to the Development of Numerical Optimization Methods 8 000 Russian roubles per month	Feb. 2022 – June. 2022
Scholarship for Contribution to the Development of Numerical Optimization Methods 7 000 Russian roubles per month	Sept. 2021 – Jan. 2022
Forecsys Research Scholarship 20 000 Russian roubles per month	Sept. 2021 – Jan 2022
Increased State Academic Schholarship Given for 4 year Bachelor and Master students at MIPT with scientific achievements 16 000 Russian roubles per month	Sept. 2021 – Jan. 2022
PhD Track Excellence Scholarship The Institut Polytechnique de Paris awards merit-based excellence scholarships for students enrolled in PhD tracks 1000 Euro per month	Sept. 2021 – Pres.
Increased State Academic Scholarship Given for 4 year Bachelor and Master students at MIPT with scientific achievements 11 000 Russian rubles per month	Sept. 2020 – June 2021
Prizewinner of Student Olympiad in Maths “I am professional” Student Olympiad organized by Yandex and MIPT	Apr. 2020
Abramov scholarship Given for 1-3 year Bachelor students with the best grades at MIPT 12 000 Russian rubles per month	Sept. 2017 – June 2020
Prizewinner of Final Round of All-Russian Physics Olympiad	Apr. 2016
Participant of Final Round of All-Russian Physics Olympiad	2015, 2017

TALKS AND POSTERS

Poster at International Conference on Artificial Intelligence and Statistics , Links: poster	29 March, 2022
Prerecorded talk at Beyond first-order methods in ML systems workshop , Links: video	24 July, 2021
Poster at International Workshop on Federated Learning for User Privacy and Data Confidentiality , Links: poster	24 July, 2021

Poster and Prerecorded Talk at International Conference on Machine Learning , Links: video , poster	22 July, 2021
Poster at PRAIRIE/MIAI AI Summer School , Links: poster	6 July, 2021
Talk at Maths & AI: MIPT-UGA young researchers workshop , Links: video , slides	1 July, 2021
Prerecorded talk at KAUST Conference on Artificial Intelligence , Links: video	28 April, 2021
Poster at NSF-TRIPODS Workshop on Communication Efficient Distributed Optimization , Links: poster	9 April, 2021

RESEARCH VISITS AND INTERNSHIPS

Internship at Machine Learning and Optimization Lab EPFL , Supervisors: Hadrien Hendrikx , Martin Jaggi	Apr. 2022 – Pres. Lausanne, Switzerland
Internship at Machine Learning and Optimization Lab KAUST , Supervisor: Peter Richtárik	Jul. 2020 – Dec. 2020 Thuwal, Saudi Arabia
Internship at Machine Learning and Optimization Lab KAUST , Supervisor: Peter Richtárik	Mar. 2020 – Aug. 2020 Thuwal, Saudi Arabia

SUMMER SCHOOLS

PRAIRIE/MIAI AI Summer School , Links: certificate	5-9 July, 2021
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Last updated on April 29th 2021