

Rustem Islamov

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EDUCATION

Bachelor of Science in Applied Mathematics

[Moscow Institute of Physics and Technology](#)

GPA: 4.97/5 (9.32/10)

Sep. 2017 – Present

Dolgoprudny, Russia

RESEARCH INTERESTS

Machine Learning, Optimization, Distributed Optimization

EXPERIENCE

Internship at Machine Learning and Optimization Lab

[KAUST](#)

Supervisor: [Peter Richtárik](#)

Theme of work: Second-order methods in distributed optimization; have taken a course related to various SGD methods in Optimization

Jul. 2020 – Dec. 2020

Thuwal, Saudi Arabia

Internship at Machine Learning and Optimization Lab

[KAUST](#)

Supervisor: [Peter Richtárik](#)

Theme of work: Second-order methods in distributed optimization

Mar. 2020 – Present

Thuwal, Saudi Arabia

PROJECTS AND EXTRA ACTIVITIES

Introduction to Scientific work

- 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](#)

Feb. 2020 - May 2020

Project on Optimization Methods

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

Apr. 2020

Mathematics and Python for Data Analysis in Coursera

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

Feb. 2020

Introduction to Programming (C++)

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

Jul. 2016

LANGUAGES

Russian: Native

Tatar: Native

English: Advanced (C1)

Spanish: 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

1. [R. Islamov](#), [X. Qian](#), [P. Richtárik](#). **Distributed Second Order Methods with Fast Rates and Compressed Communication**, accepted to ICML 2021, arXiv preprint: [arXiv:2102.07158](#)
2. [M. Safaryan](#), [R. Islamov](#), [X. Qian](#), [P. Richtárik](#). **FedNL: Making Newton-Type Methods Applicable to Federated Learning**, arXiv preprint: [arXiv:2106.02969](#)

SCHOLARSHIPS, HONORS AND AWARDS

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 NSF-TRIPODS Workshop on Communication Efficient Distributed Optimization , Links: poster	9 April, 2021
Small talk at KAUST Conference on Artificial Intelligence , Links: video	28 April, 2021

Last updated on June 8th 2021