Rustem Islamov

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EDUCATION

Bachelor of Science in Applied Mathematics   Sep. 2017 – Present
Moscow Institute of Physics and Technology   Dolgoprudny, Russia
GPA: 4.97/5 (9.32/10)

RESEARCH INTERESTS

Machine Learning, Optimization, Distributed Optimization

EXPERIENCE

Internship at Machine Learning and Optimization Lab   Jul. 2020 – Dec. 2020
KAUST   Thuwal, Saudi Arabia
Supervisor: Peter Richtárik

Internship at Machine Learning and Optimization Lab   Mar. 2020 – Present
KAUST   Thuwal, Saudi Arabia
Supervisor: Peter Richtárik

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

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 Descriptipn: Learned C++ for solving different mathematical and programming problems
- Certificate

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, 2021.

2. M. Safaryan, R. Islamov, X. Qian, P. Richtárik. **FedNL: Making Newton-Type Methods Applicable to Federated Learning**, arXiv preprint: arXiv:2106.02969, 2021.

Scholarships, Honors and Awards

Increased State Academic Scholarship	Sept. 2020 – June 2021
Given for 4 year Bachelor and Master students at MIPT with scientific achievements	
11 000 Russian rubles per month	
Prizewinner of Student Olympiad in Maths	Apr. 2020
"I am professional" Student Olympiad organized by Yandex and MIPT	
Abramov scholarship	Sept. 2017 – June 2020
Given for 1-3 year Bachelor students with the best grades at MIPT	
12 000 Russian rubles per month	
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 11$^{\text{th}}$ 2021