Rustem Islamov

Basel, Switzerland | +41-76-708-89-64 | rustem.islamov@unibas.ch | rustem-islamov.github.io

EDUCATION

Oct. 2023 – Pres. Basel, Switzerland Sept. 2021 – Aug. 2023 Palaiseau, France
Oct. 2022 – Oct. 2023 Saarbrücken, Germany
Apr. 2022 – Aug. 2022 Lausanne, Switzerland
Sept. 2021 – Mar. 2021 Palaiseau, France
Jul. 2020 – Dec. 2020 Thuwal, Saudi Arabia

Publications

- 8. R. Islamov, M. Safaryan, D. Alistarh. AsGrad: A Sharp Unified Analysis of Asynchronous-SGD Algorithms, arXiv preprint arXiv: 2310.20452, 2023.
- 7. K. Mishchenko, R. Islamov, E. Gorbunov, S. Horváth. Partially Personalized Federated Learning: Breaking the Curse of Data Heterogeneity, arXiv preprint arXiv: 2305.18285, 2023.
- S Khirirat, E. Gorbunov, S Horváth, R. Islamov, F. Karray, P. Richtárik. Clip21: Error Feedback for Gradient Clipping, arXiv preprint arXiv: 2305.18929, 2023.
- 5. M. Makarenko, E. Gasanov, R. Islamov, A. Sadiev, P. Richtárik. Adaptive Compression for Communication-Efficient Distributed Training, Transactions on Machine Learning Research, 2022.
- 4. R. Islamov, X. Qian, S. Hanzely, M. Safaryan, P. Richtárik. Distributed Newton-Type Methods with Communication Compression and Bernoulli Aggregation, Transactions on Machine Learning Research, 2022.
- 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, In Proc. of 39th International Conference on Machine Learning, 2022.
- 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.

Research Visits and Internships	
Internship at Distributed Algorithms and Systems Lab	Apr. 2023 – Oct. 2023
IST Austria, Supervisors: Mher Safaryan, Dan Alistarh	Klosterneuburg, Austria
Internship at Machine Learning and Optimization Lab	Apr. 2022 – Aug. 2022
EPFL, Supervisors: Hadrien Hendrikx, Martin Jaggi	Lausanne, Switzerland
Internship at Optimization and Machine Learning Lab	Mar. 2021 – Aug. 2021
KAUST, Supervisor: Peter Richtárik	Jul. $2020 - Dec. 2020$
	Thuwal, Saudi Arabia
Talks and Posters	
Talk at NTDS workshop, Links: paper	24 October, 2023
Talk at CISPA for the group of Prof. Sebastian Stich, Links: paper	16 March, 2023
Talk at ETH AI Center Symposium for PhD fellows, Links: paper	9-10 February, 2023
Poster at NeurIPS workshop: Order up! The Benefits of Higher-Order Optimization	2 December, 2022
in Machine Learning, Links: poster, paper	
Poster at International Conference on Artificial Intelligence and Statistics,	29 March, 2022
Links: poster, paper	
Prerecorded Talk at Beyond first-order methods in ML systems workshop,	24 July, 2021
Links: video, paper	
Poster at International Workshop on Federated Learning for User Privacy and Data	24 July, 2021
Confidentiality, Links: poster, paper	
Poster and Prerecorded Talk at International Conference on Machine Learning,	22 July, 2021
Links: video, poster, paper	
Poster at PRAIRIE/MIAI AI Summer School, Links: poster, paper	6 July, 2021
Talk at Maths & AI: MIPT-UGA young researchers workshop, Links: video, slides,	
Prerecorded Talk at KAUST Conference on Artificial Intelligence, Links: video, p	
Poster at NSF-TRIPODS Workshop on Communication Efficient Distributed	9 April, 2021
Optimization, Links: poster, paper	
Summer Schools	
PRAIRIE/MIAI AI Summer School, Links: certificate	5-9 July, 2021
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Scholarships, Honors and Awards	
French Embassy Scholarship	Sept. 2022 – May. 2023
Given to students enrolled to French universities with high academic achievements; 700 Euro	
per month	
PhD Track Excellence Scholarship	Sept. 2021 – Mar. 2022
IP Paris awards merit-based excellence scholarships for students enrolled in PhD tracks;	Sept. 2022 – Mar. 2023
1000 Euro per month	
Increased State Academic Scholarship	Feb. 2021 – June 2021
Given to 4 year Bachelor and Master students at MIPT with scientific achievements;	Sept. 2020 – Jan. 2021
16,000 Russian roubles 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 to 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

TECHNICAL SKILLS

Programming Languages: Python (NumPy, Matplotlib, PyTorch, Pandas), C++, LaTeX Mathematics: Calculus, Linear Algebra, Probability Theory, Convex Analysis

Languages

Hobbies and Interests

Russian: Native Football, former member of student football team

English: Advanced (C1)

Travelling, hiking, photo shooting

French: Elementary (A1)

Last updated on October 27th 2023