Eduard Gorbunov

Personal Data

Place and Date of Birth:	Rybinsk, Russia | 22 November 1996
email:	ed-gorbunov@yandex.ru
website:	eduardgorbunov.github.io

Research Interests

Optimization, Randomized Algorithms, Machine Learning

Education

Present Master of Science in Applied Mathematics
Moscow Institute of Physics and Technology, Moscow

June 2018 Bachelor of Science in Applied Mathematics
Moscow Institute of Physics and Technology, Moscow
Thesis: "Accelerated Directional Searchs and Gradient-Free Methods with non-Euclidean prox-structure" | Advisor: Alexander Gasnikov
GPA: 8.8/10

Publications

- E. Gorbunov, E. Vorontsova and A. Gasnikov. **On the upper bound for the mathematical expectation of the norm of a vector uniformly distributed on the sphere and the phenomenon of concentration of uniform measure on the sphere**, arXiv preprint arXiv:1804.03722 (April 2018)
- P. Dvurechensky, A. Gasnikov and E. Gorbunov. **An Accelerated Directional Derivative Method for Smooth Stochastic Convex Optimization**, arXiv preprint arXiv:1804.02394 (April 2018)
- P. Dvurechensky, A. Gasnikov and E. Gorbunov. **An Accelerated Method for Derivative-Free Smooth Stochastic Convex Optimization**, arXiv preprint arXiv:1802.09022 (February 2018)
- D. Kovalev, E. Gorbunov, E. Gasanov and P. Richtárik **Stochastic Spectral and Conjugate Descent Methods**, Advances in Neural Information Processing Systems 31, arXiv:1802.03703 (February 2018)
- E. Vorontsova, A. Gasnikov and E. Gorbunov. **Accelerated Directional Search with non-Euclidean prox-structure**, arXiv preprint arXiv:1710.00162 (September 2017)

Conference Talks and Posters

- 1-6 July 2018, 23rd International Symposium on Mathematical Programming, Bordeaux, France. Talk "An Accelerated Directional Derivative Method for Smooth Stochastic Convex Optimization"
- 10-15 June 2018, Traditional Youth School "Control, Information and Optimization" organized by Boris Polyak and Elena Gryazina, Voronovo, Russia. Poster and Talk "An Accelerated Directional Derivative Method for Smooth Stochastic Convex Optimization"

- 14 April 2018, Workshop "Optimization at Work", MIPT, Dolgoprudny, Russia. Talk "An Accelerated Method for Derivative-Free Smooth Stochastic Convex Optimization"
- 5-7 February 2018, KAUST Research Workshop on Optimization and Big Data, KAUST, Thuwal, Saudi Arabia. Joint Poster "Stochastic Spectral Descent Methods" with D. Kovalev and E. Gasanov.
- 25 November 2017, 60th Scientific Conference of MIPT, Section of Information Transmission Problems, Data Analysis and Optimization, IITP, Moscow, Russia. Talk "About accelerated Directional Search with non-Euclidean prox-structure".
- 27 October 2017, Workshop "Optimization at Work", MIPT, Dolgoprudny, Russia. Talk "Accelerated Directional Search with non-Euclidean prox-structure".

Research Visits

- 14 January – 8 February 2018, Visual Computing Center, KAUST, Thuwal, Saudi Arabia (Dr. P. Richtárik)

Teaching

Tutor for the courses

- Fall 2018: Probability Theory
- Spring 2018: Algorithms and Models of Computation

Languages

Russian:	Mothertongue
English:	Fluent

Computer Skills

Operating Systems:	Microsoft Windows, Linux, Mac OSX
Programming Languages:	Python, LaTeX, C, C++

Interests

- Football: 9 years in football school in Rybinsk, Russia. Now I am playing for an amateur team and a student team.
- Table Tennis

Scholarships, Honors and Awards

- **November 2017.** Diploma of winner of the Section of Information Transmission Problems, Data Analysis and Optimization at 60th Scientific Conference of MIPT
- **May 2017.** Third Prize at MIPT's Student Olympiad in Mathematics
- **March 2017.** First Prize at MIPT's Team Mathematical Tournament
- **September 2016 - June 2017.** Abramov scholarship for 1-3 year bachelor students with the best grades at MIPT (12,000 Russian rubles per month)
- **December 2015.** Third Prize at MIPT's Student Olympiad in Mathematics

- **February 2015 - June 2015.** Abramov scholarship for 1-3 year bachelor students with the best grades at MIPT (12,000 Russian rubles per month)
- **April 2014.** Participant of Final Round of All-Russian Mathematical Olympiad (scored points: 28 out of 56, 59th place)

Summer Schools

- **June 2018.** Participant of Traditional Youth School "Control, Information and Optimization"
- **June 2017.** Participant of Traditional Youth School "Control, Information and Optimization"
- **July 2015.** Participant of Summer School "Contemporary Mathematics" in Dubna
- **July 2014.** Participant of Summer School "Contemporary Mathematics" in Dubna

Last Updated on October 10, 2018