Dmitry **Kovalev**

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Education

King Abdullah University of Science and Technology	*Thuwal, Saudi Arabia*
Ms/PhD in Computer Science	*Sep. 2018 - PRESENT*
Moscow Institute of Physics and Technology	*Moscow, Russia*
B.S. Applied Mathematics and Physics	*Sep. 2014 - Jun. 2018*

Skills

Programming	C/C++, Python, LaTeX, Go
Mathematics	Probability and Statistics, Calculus, Linear Algebra

Honors & Awards

2012	**Prize-Winner**, All-Russian School Physics Olympiad, Final Round	*Saransk, Russia*
2013	**Winner**, All-Russian School Physics Olympiad, Final Round	*Vladivostok, Russia*
2014	**Prize-Winner**, All-Russian School Physics Olympiad, Final Round	*Saint Petersburg, Russia*
2014	**Winner**, All-Russian School Math Olympiad, Region Round	*Moscow, Russia*
2014	**Winner**, All-Russian School Programming Olympiad, Region Round	*Moscow, Russia*
2014	**Honourable Mention**, APhO (Asian Physics Olympiad)	*Singapore*
2012-2014	**Russian President's Scholarship**, for high school students	*Russia*
2012-2014	**Moscow Governor's Scholarship**, for high school students	*Moscow, Russia*
2012-2014	**Abramov's Fund Scholarship**, for top students of Moscow Institute of Physics and Technology	*Moscow, Russia*

Papers

Stochastic Distributed Learning with Gradient Quantization and Variance Reduction

Samuel Horváth, Dmitry Kovalev, Konstantin Mishchenko, Peter Richtárik and Sebastian U. Stich *???*

• https://arxiv.org/abs/????.?????

Don't Jump Through Hoops and Remove Those Loops: SVRG and Katyusha are Better Without the Outer Loop

Dmitry Kovalev, Samuel Horváth and Peter Richtárik *24 Jan. 2019*

• https://arxiv.org/abs/1901.08689

A hypothesis about the rate of global convergence for optimal methods (Newton's type) in smooth convex optimization

Alexander Gasnikov, Dmitry Kovalev *11 Feb. 2018*

• https://doi.org/10.20537/2076-7633-2018-10-3-305-314

Stochastic Spectral and Conjugate Descent Methods

Dmitry Kovalev, Eduard Gorbunov, Elnur Gasanov and Peter Richtárik *11 Feb. 2018*

• https://papers.nips.cc/paper/7596-stochastic-spectral-and-conjugate-descent-methods
• This paper was accepted to NeurIPS 2018 conference.

Conferences & Talks

Optimization and Big Data Workshop

KAUST, Thuwal, Saudi Arabia

Poster Presenter

Feb. 2018

- Workshop Site: `https://obd.kaust.edu.sa/`
- Poster: `https://epostersonline.com/obd2018/node/51`

Tradition School (Control, Information and Otimization)

Voronovo, Moscow Region, Russia

Poster Presenter

Jun. 2018

- `http://www.mathnet.ru/php/seminars.phtml?option_lang=rus&presentid=23658`
- `https://www.ipu.ru/node/50794`

32nd Conference on Neural Information Processing Systems (NeurIPS 2018)

Palais des Congrès de Montréal, Montréal CANADA

Accepted Paper: «Stochastic Spectral and Conjugate Descent Methods»

Dec. 2018

- `https://neurips.cc/Conferences/2018/Schedule?showEvent=11338`
- I didn't go there because of MS qualification exams.

Seminar «Modern Optimization Methods»

Moscow Institute of Physics and Technology, Moscow, Russia

Talk: «Stochastic Distributed Learning with Gradient Quantization and Variance Reduction»

25 Mar. 2019

- `https://vk.com/miptopt?w=wall-132864820_40%2Fall`

Weekly seminar «Automatic control and Optimization Theory»

Institute for Control Problems, Moscow, Russia

Talk: «Stochastic Spectral and Conjugate Descent Methods»

26 Mar. 2019

- `http://www.mathnet.ru/php/seminars.phtml?option_lang=rus&presentid=23658`
- `https://www.ipu.ru/node/50794`

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