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*

BSc in Applied Mathematics and Physics   *Sep. 2014 - Jun. 2018*

Skills

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

Honors & Awards

2015-2017	**Abramov's Fund Scholarship**, for top students of Moscow Institute of Physics and Technology	*Moscow, Russia*
2014	**Honourable Mention**, APhO (Asian Physics Olympiad)	*Singapore*
2014	**Prize-Winner**, All-Russian School Physics Olympiad, Final Round	*Saint Petersburg, Russia*
2014	**Winner**, All-Russian School Programming Olympiad, Region Round	*Moscow, Russia*
2014	**Winner**, All-Russian School Math Olympiad, Region Round	*Moscow, Russia*
2012-2014	**Russian President's Scholarship**, for high school students	*Russia*
2012-2014	**Moscow Governor's Scholarship**, for high school students	*Moscow, Russia*
2013	**Winner**, All-Russian School Physics Olympiad, Final Round	*Vladivostok, Russia*
2012	**Prize-Winner**, All-Russian School Physics Olympiad, Final Round	*Saransk, Russia*

Papers

Stochastic Distributed Learning with Gradient Quantization and Variance Reduction

Samuel Horváth, Dmitry Kovalev, Konstantin Mishchenko, Peter Richtárik and Sebastian U. Stich   *Jan. 2019*

• arXiv 2019

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   *Jan. 2019*

• arXiv 2019

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

Alexander Gasnikov, Dmitry Kovalev   *Feb. 2018*

• Computer Research and Modeling, 2018, Volume 10, Issue 3, Pages 305–314

Stochastic Spectral and Conjugate Descent Methods

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

• NeurIPS 2018

Conferences & Talks

Weekly seminar «Automatic control and Optimization Theory»

Institute for Control Problems, Moscow, Russia

26 Mar. 2019

Talk: «Stochastic Spectral and Conjugate Descent Methods»

- Link 1
- Link 2

Seminar «Modern Optimization Methods»

Moscow Institute of Physics and Technology, Moscow, Russia

25 Mar. 2019

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

- Link

Traditional School (Control, Information and Otimization)

Voronovo, Moscow Region, Russia

Jun. 2018

Poster Presenter: «Stochastic Spectral Descent Methods»

- School website 1
- School website 2

Optimization and Big Data Workshop

KAUST, Thuwal, Saudi Arabia

Feb. 2018

Poster Presenter: Stochastic Spectral Descent Methods

- Workshop website
- Poster