

Dmitry Kovalev

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Education

King Abdullah University of Science and Technology

MS/PHD IN COMPUTER SCIENCE

Thuwal, Saudi Arabia

Sep. 2018 - PRESENT

Moscow Institute of Physics and Technology

BSC IN APPLIED MATHEMATICS AND PHYSICS

Moscow, Russia

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 Optimization)

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](#)