

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 Proximal Langevin Algorithm: Potential Splitting and Nonasymptotic Rates

ADIL SALIM, DMITRY KOVALEV, PETER RICHTÁRIK

May 2019

- [arXiv 2019](https://arxiv.org/abs/1905.00000)

Revisiting Stochastic Extragradient

KONSTANTIN MISHCHENKO, DMITRY KOVALEV, EGOR SHULGIN, PETER RICHTÁRIK, YURA MALITSKY

May 2019

- [arXiv 2019](https://arxiv.org/abs/1905.00000)

RSN: Randomized Subspace Newton

ROBERT M. GOWER, DMITRY KOVALEV, FELIX LIEDER, PETER RICHTÁRIK

May 2019

- [arXiv 2019](https://arxiv.org/abs/1905.00000)

Stochastic Distributed Learning with Gradient Quantization and Variance Reduction

SAMUEL HORVÁTH, DMITRY KOVALEV, KONSTANTIN MISHCHENKO, PETER RICHTÁRIK, SEBASTIAN U. STICH

Jan. 2019

- [arXiv 2019](https://arxiv.org/abs/1905.00000)

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

DMITRY KOVALEV, SAMUEL HORVÁTH, PETER RICHTÁRIK

Jan. 2019

- [arXiv 2019](https://arxiv.org/abs/1905.00000)

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, PETER RICHTÁRIK

Feb. 2018

- NeurIPS 2018

Conferences & Talks

Weekly seminar «Automatic control and Optimization Theory»

*Institute for Control Problems,
Moscow, Russia*

TALK: «STOCHASTIC SPECTRAL AND CONJUGATE DESCENT METHODS»

26 Mar. 2019

- [Link 1](#)
- [Link 2](#)

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

- [Link](#)

Traditional School (Control, Information and Optimization)

Voronovo, Moscow Region, Russia

POSTER PRESENTER: «STOCHASTIC SPECTRAL DESCENT METHODS»

Jun. 2018

- [School website 1](#)
- [School website 2](#)

Optimization and Big Data Workshop

KAUST, Thuwal, Saudi Arabia

POSTER PRESENTER: STOCHASTIC SPECTRAL DESCENT METHODS

Feb. 2018

- [Workshop website](#)
- [Poster](#)