

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

B.S. IN APPLIED MATHEMATICS AND PHYSICS

Moscow, Russia

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/1901.08689>

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

• http://www.mathnet.ru/php/archive.phtml?wshow=paper&jrnid=crm&paperid=253&option_lang=eng

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 Optimization)

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>