Dmitry **Kovalev**

2225-WS19, Building 1, King Abdullah University of Science and Technology, Thuwal, 23955, Saudi Arabia

☐ +7 905 719 06 98 | ✉ dmitry.kovalev@kaust.edu.sa | 🏠 dmitry-kovalev.com | 🐙 dakovalev1

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 Proximal Langevin Algorithm: Potential Splitting and Nonasymptotic Rates

Adil Salim, Dmitry Kovalev, Peter Richtárik *May 2019*

- arXiv 2019

Revisiting Stochastic Extragradient

Konstantin Mishchenko, Dmitry Kovalev, Egor Shulgin, Peter Richtárik, Yura Malitsky *May 2019*

- arXiv 2019

RSN: Randomized Subspace Newton

Robert M. Gower, Dmitry Kovalev, Felix Lieder, Peter Richtárik *May 2019*

- arXiv 2019

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

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 Otimization)

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