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Education

King Abdullah University of Science and Technology

PHD IN COMPUTER SCIENCE

Thuwal, Saudi Arabia

Jan. 2020 - PRESENT

King Abdullah University of Science and Technology

MS IN COMPUTER SCIENCE

Thuwal, Saudi Arabia

Sep. 2018 - Dec. 2019

Moscow Institute of Physics and Technology

BSC IN APPLIED MATHEMATICS AND PHYSICS

Moscow, Russia Sep. 2014 - Jun. 2018

Skills

Programming C/C++, Python, 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 ____

Distributed Fixed Point Methods with Compressed Iterates

SÉLIM CHRAIBI, AHMED KHALED, DMITRY KOVALEV, PETER RICHTÁRIK, ADIL SALIM, MARTIN TAKÁČ

Dec. 2019

arXiv 2019

Stochastic Newton and Cubic Newton Methods with Simple Local **Linear-Quadratic Rates**

DMITRY KOVALEV, KONSTANTIN MISHCHENKO, PETER RICHTÁRIK

Dec. 2019

- NeurIPS 2019 Workshop: Beyond First Order Methods in Machine Learning
- arXiv 2019

Accelerated methods for composite non-bilinear saddle point problem

MOHAMMAD ALKOUSA, DARINA DVINSKIKH, FEDOR STONYAKIN, ALEXANDER GASNIKOV, DMITRY KOVALEV

Dec. 2019

• arXiv 2019

Stochastic Proximal Langevin Algorithm: Potential Splitting and Nonasymptotic

ADIL SALIM, DMITRY KOVALEV, PETER RICHTÁRIK

May 2019

• NeurIPS 2019

Revisiting Stochastic Extragradient

Konstantin Mishchenko, Dmitry Kovalev, Egor Shulgin, Peter Richtárik, Yura Malitsky

May 2019

- NeurIPS 2019 Workshop: Bridging Game Theory and Deep Learning
- arXiv 2019
- Accepted to AISTATS 2020

RSN: Randomized Subspace Newton

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

May 2019

• NeurIPS 2019

Stochastic Distributed Learning with Gradient Quantization and Variance Reduction

Samuel Horváth, Dmitry Kovalev, Konstantin Mishchenko, Peter Richtárik, 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, PETER RICHTÁRIK

Jan 2019

- arXiv 2019
- Accepted to ALT 2020

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

TU, Berlin, Germany

TALK: «REVISITING STOCHASTIC EXTRAGRADIENT METHOD»

5 Aug. 2019

26 Jun. 2019

Data Science Summer School 2019

POSTER: «STOCHASTIC DISTRIBUTED LEARNING WITH GRADIENT QUANTIZATION AND VARIANCE REDUCTION»

École polytechnique, Paris, France

Voronovo, Moscow Region, Russia

Traditional School (Control, Information and Otimization)

POSTER: «STOCHASTIC DISTRIBUTED LEARNING WITH GRADIENT QUANTIZATION AND VARIANCE REDUCTION»

20 Jun. 2019

Weekly seminar «Automatic control and Optimization Theory»

TALK: «STOCHASTIC SPECTRAL AND CONJUGATE DESCENT METHODS»

IPU, Moscow, Russia

26 Mar. 2019

25 Mar. 2019

Seminar «Modern Optimization Methods»

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

MIPT, Moscow, Russia

Traditional School (Control, Information and Otimization)

POSTER: «STOCHASTIC SPECTRAL DESCENT METHODS»

Voronovo, Moscow Region, Russia

Jun. 2018

Optimization and Big Data Workshop

POSTER: STOCHASTIC SPECTRAL DESCENT METHODS

KAUST, Thuwal, Saudi Arabia Feb. 2018