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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. 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 | <b>Abramov's Fund Scholarship</b> , 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

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https://arxiv.org/abs/????.?????

## 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 • https://doi.org/10.20537/2076-7633-2018-10-3-305-314 11 Feb. 2018

## **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**

POSTER PRESENTER

## **Optimization and Big Data Workshop**

POSTER PRESENTER Feb. 2018

• Workshop Site: https://obd.kaust.edu.sa/

• Poster: https://epostersonline.com/obd2018/node/51

#### **Tradition School (Control, Information and Otimization)**

• 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)

ACCEPTED PAPER: «STOCHASTIC SPECTRAL AND CONJUGATE DESCENT METHODS»

• https://neurips.cc/Conferences/2018/Schedule?showEvent=11338

• I didn't go there because of MS qualification exams.

### **Seminar «Modern Optimization Methods»**

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

• https://vk.com/miptopt?w=wall-132864820\_40%2Fall

#### Weekly seminar «Automatic control and Optimization Theory»

TALK: «STOCHASTIC SPECTRAL AND CONJUGATE DESCENT METHODS»

• http://www.mathnet.ru/php/seminars.phtml?option\_lang=rus&presentid=23658

• https://www.ipu.ru/node/50794

Voronovo, Moscow Region, Russia

KAUST, Thuwal, Saudi Arabia

Jun. 2018

Palais des Congrès de Montréal, Montréal CANADA

Dec. 2018

Moscow Institute of Physics and Technology, Moscow, Russia

25 Mar. 2019

Institute for Control Problems, Moscow, Russia

26 Mar. 2019