

# ELNUR GASANOV

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## EDUCATION

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### **Ph.D. in Machine Learning and Optimization**

Jan. 2020 - Present

King Abdullah University of Science and Technology  
Supervised by Peter Richtárik

### **Master of Science in Computer Science**

Sep. 2018 - Dec. 2019

King Abdullah University of Science and Technology  
GPA: 3.67/4.00

### **Bachelor of Science in Applied Mathematics and Physics**

Sep. 2014 - Jun. 2018

Moscow Institute of Physics and Technology (State University)  
Average Grade: 8.66/10.00

## PUBLICATIONS

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Elnur Gasanov, Konstantin Mishchenko, Peter Richtárik, "ADT SVRG: Asynchronous Delay-Tolerant SVRG", forthcoming

Dmitry Kovalev, Eduard Gorbunov, Elnur Gasanov, Peter Richtárik, Stochastic Spectral and Conjugate Descent Methods, NeurIPS 2018

Gasanov Elnur, Motrenko Anastasia, Creation of approximating scalogram description in a problem of movement prediction, Machine Learning and Data Analysis, Vol. 3, #2, 2017

## CONFERENCES AND WORKSHOPS

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KAUST-Tsinghua-Industry workshop on AI, KAUST, Saudi Arabia, 2019, Poster

Data Science Summer School, Paris, France, 2019, Poster

Optimization and Big Data, KAUST, Saudi Arabia, 2018, Poster

## RESEARCH INTERNSHIPS

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### **Visiting MS student**

June 2019 - July 2019

University of Grenoble-Alpes, Laboratory Jean Kuntzmann

Supervised by Prof. Jerome Malick and postdoctoral fellow Franck Lutzeler, I worked on an asynchronous lock-free algorithm, derived convergence rates for full and stochastic gradient cases. For the second case, I analyzed the algorithm for both constant and diminishing stepsizes. The results are to be organized into a paper.

## HONORS AND REWARDS

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Enlarged state academic scholarship, 2017-2018

Abramov fund excellence scholarship, 2014-2017

Governors award, 2012-2014

Prize-winner of All-Russia Physics Olympiad (Regional step, Moscow region, 2012 - 2014)

Prize-winner of All-Russia Maths Olympiad (Regional step, Moscow region, 2012, 2014)

Prize-winner of All-Russia Economics Olympiad (Regional step, Moscow region), 2013

Prize-winner of competition "Future Scientists" (Moscow), physics section

## CO-CURRICULAR COURSES AND ACTIVITIES

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Deep Learning Nanodegree, Udacity, 2019

- Topics covered: PyTorch, Convolutional and Recurrent Neural Networks, GAN, Deployment using AWS
- Taught by Ian Goodfellow, Mat Leonard, Cezanne Comacho

C++ course White Belt, Coursera, 2018

- Topics covered: Functions and Containers, Classes, Exception Handling, Operator Overloading
- Taught by specialists from Yandex

Seminar Co-organizer, All hands meetings on Big Data Optimization, September 2019 - Present

- Co-organizer of a group seminar

**SKILLS**

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<b>Mathematics</b>	Linear Algebra, Theory of Algorithms, Machine Learning, Deep Learning
<b>Programming</b>	C++, Python (NumPy, Matplotlib, PyTorch, Pandas), Matlab, Golang
<b>Tools</b>	MS Office, LaTeX, SQL Server
<b>Languages</b>	Russian C2, English C1

**EXTRA CURRICULARS AND HOBBIES**

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- Hobbies: Fitness, Volleyball, Windsurfing
- Volunteer: National Park Hunsrueck II, Deuselbach, Germany, 2017
- Volunteer: Environment and Legality at Vesuvio National Park, Ottaviano, Italy, 2016
- Volunteer: University "5top100" conference, 2016
- Volunteer: Promoting Biodiversity in Neckertal, Brunnadern SG, Switzerland, 2015