

Anton Rodomanov

Personal information

Date of birth: 22 January 1994 (Krasnodar, Russia)
Nationality: Russian
Marital status: Married
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Education

2015–2017 MSc in Computer Science, [National Research University Higher School of Economics](#)
2011–2015 BSc in Computer Science, [Lomonosov Moscow State University](#)

Publications

- 2016 **A Superlinearly-Convergent Proximal Newton-Type Method for the Optimization of Finite Sums** (assigned 3rd level funding by HSE Academic Fund Programme in 2017)
A. Rodomanov, D. Kropotov
Proceedings of the 33rd International Conference on Machine Learning (ICML)
[\[pdf\]](#) [\[supplementary\]](#) [\[poster\]](#) [\[slides\]](#) [\[code\]](#)
- 2016 **Primal-Dual Method for Searching Equilibrium in Hierarchical Congestion Population Games**
P. Dvurechensky, A. Gasnikov, E. Gasnikova, S. Matsievsky, A. Rodomanov, I. Usik
Proceedings of the 9th International Conference on Discrete Optimization and Operations Research and Scientific School (DOOR)
[\[pdf\]](#)
- 2015 **A Newton-type Incremental Method with a Superlinear Convergence Rate**
A. Rodomanov, D. Kropotov
NIPS Workshop on Optimization for Machine Learning (Optimization@NIPS)
[\[pdf\]](#) [\[poster\]](#)
- 2014 **Putting MRFs on a Tensor Train**
A. Novikov, A. Rodomanov, A. Osokin, D. Vetrov
Proceedings of the 31st International Conference on Machine Learning (ICML)
[\[pdf\]](#) [\[supplementary\]](#) [\[poster\]](#) [\[slides\]](#) [\[code\]](#)

Talks

- 02/2018 **Adaptive gradient methods for stochastic and online optimization**
Seminar on Bayesian Methods in Machine Learning, Yandex School of Data Analysis, Moscow
[\[slides\]](#)
- 10/2016 **Incremental Newton Method for Big Sums of Functions**

	Seminar on Stochastic Analysis in Problems, IUM, Moscow, Russia [slides (in Russian)] [video (in Russian)]
06/2016	A Superlinearly-Convergent Proximal Newton-Type Method for the Optimization of Finite Sums International Conference on Machine Learning (ICML), New York, USA [slides] [video]
06/2016	Optimization Methods for Big Sums of Functions Deep Machine Intelligence Workshop, Skoltech, Moscow, Russia [slides]
05/2016	Incremental Newton Method for Minimizing Big Sums of Functions HSE off-site seminar on Machine Learning, Voronovo, Russia [slides]
03/2016	Introduction to the Tensor Train Decomposition and Its Applications in Machine Learning Seminar on Applied Linear Algebra, HSE, Moscow, Russia [slides]
02/2016	Proximal Incremental Newton Method Seminar on Bayesian Methods in Machine Learning, MSU, Moscow [slides]
08/2015	Probabilistic Graphical Models: a Tensorial Perspective International Conference on Matrix Methods in Mathematics and Applications (MMMA), Skoltech, Moscow, Russia [slides]
06/2015	A Fast Incremental Optimization Method with a Superlinear Rate of Convergence Summer School on Control, Information and Optimization, Solnechnogorsk, Russia [slides]
10/2014	Markov Chains and Spectral Theory Seminar on Bayesian Methods in Machine Learning, MSU, Moscow, Russia [slides (in Russian)]
05/2014	Low-Rank Representation of MRF Energy by means of the TT-Format SIAM Conference in Imaging Science (SIAM-IS), Hong-Kong, China [slides]
04/2014	Fast Gradient Method Seminar on Bayesian Methods in Machine Learning, MSU, Moscow, Russia [slides (in Russian)]
10/2013	TT-Decomposition for Compact Representation of Tensors Seminar on Bayesian Methods in Machine Learning, MSU, Moscow, Russia [slides (in Russian)]

Posters

06/2016	A Superlinearly-Convergent Proximal Newton-Type Method for the Optimization of Finite Sums International Conference on Machine Learning (ICML), New York, USA [poster]
12/2015	A Newton-type Incremental Method with a Superlinear Convergence Rate NIPS Workshop on Optimization for Machine Learning (Optimization@NIPS), Montreal, Canada [poster]
07/2015	A Fast Incremental Optimization Method with a Superlinear Rate of Convergence Microsoft Research PhD Summer School, Cambridge, United Kingdom [poster]
06/2014	Putting MRFs on a Tensor Train International Conference on Machine Learning (ICML), Beijing, China [poster]

Awards

2017	Increased State Academic Scholarship for research and academic achievements
2016	Golden HSE Award in the Silver Nestling nomination
2016	Personal Scholarship of the Lukoil Fund
2016	Ilya Segalovich Scholarship (from Yandex)
2015	Winner of a faculty-wide competition of theses (1st place) at the Lomonosov Moscow State University

Participation in grants

2017–2019 [RSF](#) grant 17-11-01027 on **Algorithmic optimization for problems with large number of variables**
Project head: Yurii Nesterov.

Work experience

{01–12}/2018 **Research Fellow** at the [Samsung-HSE Laboratory](#) of the [National Research University Higher School of Economics](#)
{01–12}/2017 **Junior Researcher** at the [International Laboratory of Deep Learning and Bayesian Methods](#) of the [National Research University Higher School of Economics](#)

Teaching experience

{02–05}/2018 **Optimization Methods in Machine Learning** at the [Yandex School of Data Analysis](#)
Conducting seminars. Lecturer: Dmitry Kropotov.
{01–03}/2018 **Continuous Optimization** at the [Faculty of Computer Science, Higher School of Economics](#)
Conducting seminars. Lecturer: Dmitry Kropotov.
{09–12}/2017 **Optimization Methods in Machine Learning** at the [Faculty of Computational Mathematics and Cybernetics, Moscow State University](#) and at the Department of Control and Applied Mathematics, [Moscow Institute of Physics and Technology](#)
Conducting seminars. Lecturer: Dmitry Kropotov.
{02–05}/2017 **Optimization Methods in Machine Learning** at the [Yandex School of Data Analysis](#)
Conducting seminars. Lecturer: Dmitry Kropotov.
{01–03}/2017 **Continuous Optimization** at the [Faculty of Computer Science, Higher School of Economics](#)
Conducting seminars. Lecturer: Dmitry Kropotov.
{09–12}/2016 **Optimization Methods in Machine Learning** at the [Faculty of Computational Mathematics and Cybernetics, Moscow State University](#)
Conducting seminars. Lecturer: Dmitry Kropotov.
{02–05}/2016 **Optimization Methods in Machine Learning** at the [Yandex School of Data Analysis](#)
Conducting seminars. Lecturer: Dmitry Kropotov.
{11–12}/2015 **Machine Learning** at the [Skolkovo Institute of Science and Technology](#)
Conducting seminars. Lecturer: Victor Kitov.
{02–05}/2015 **Optimization Methods in Machine Learning** at the [Yandex School of Data Analysis](#)
Conducting seminars. Lecturer: Dmitry Kropotov.

Languages

Russian	Native
English	Advanced (TOEFL iBT: 97/120, August 2017)