

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

- 08/2018 **Lecture: Introduction to Stochastic Optimization**
DeepBayes Summer School, Moscow, Russia
[\[slides\]](#) [\[video\]](#)
- 02/2018 **Adaptive gradient methods for stochastic and online optimization**
Seminar on Bayesian Methods in Machine Learning, Yandex School of Data Analysis, Moscow, Russia
[\[slides\]](#)
- 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

{09–12}/2018 **Optimization Methods in Machine Learning** at the [Faculty of Computational Mathematics and Cybernetics, Moscow State University](#)
Conducting seminars. Lecturer: Dmitry Kropotov.
{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)