# Anton Rodomanov

## Contact details

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#### Research interests

Optimization, Machine Learning, Bayesian Statistics.

#### 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 A. Rodomanov, D. Kropotov
	Proceedings of the 33rd International Conference on Machine Learning (ICML)
	[pdf] [supplementary] [poster] [slides] [code]
	Primal-Dual Method for Searching Equilibrium in Hierarchical Congestion Popula-
2016	tion 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)
	$[\mathrm{pdf}]$
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] $[poster]$
	Putting MRFs on a Tensor Train
2014	A. Novikov, A. Rodomanov, A. Osokin, D. Vetrov
	Proceedings of the 31st International Conference on Machine Learning (ICML)

## **Talks**

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)]

[pdf] [supplementary] [poster] [slides] [code]

06/2016	A Superlinearly-Convergent Proximal Newton-Type Method for the Optimization of Finite Sums	
0.0 / 0.01.0	International Conference on Machine Learning (ICML), New York, USA [slides] [video] Optimization Methods for Big Sums of Functions	
06/2016	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	
00/2019	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 Payerian Methods in Machine Learning, MSU Massaw, Puggia [clides (in Puggian)]	
10/0019	Seminar on Bayesian Methods in Machine Learning, MSU, Moscow, Russia [slides (in Russian)] TT-Decomposition for Compact Representation of Tensors	
10/2013	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	
12/2015	International Conference on Machine Learning (ICML), New York, USA [poster]  A Newton-type Incremental Method with a Superlinear Convergence Rate  NIPS Workshop on Optimization for Machine Learning (Optimization@NIPS), Montreal, Canada	
07/2015	[poster] A Fast Incremental Optimization Method with a Superlinear Rate of Convergence	
,	Microsoft Research PhD Summer School, Cambridge, United Kingdom [poster] Putting MRFs on a Tensor Train	
06/2014	International Conference on Machine Learning (ICML), Beijing, China [poster]	
Awards		
2016	Winner of the Golden HSE Award in the Silver Nestling nomination	
2016	Winner of the personal Scholarship of the Lukoil Fund	
2016 2015	Winner of the Ilya Segalovich Scholarship (from Yandex) Winner (1st place) of a faculty-wide comptetition of theses at the Lomonosov Moscow State University	
Teaching experience		
{01-03}/2017	Optimization Methods at the Faculty of Computer Science, Higher School of Economics Seminars and practical sessions. Lecturer: Dmitry Kropotov.	
{09-12}/2016	Optimization Methods in Machine Learning at the Faculty of Computational Mathematics and Cybernetics, Moscow State University	

Seminars and practical sessions. Lecturer: Dmitry Kropotov.

Optimization Methods in Machine Learning at the Yandex School of Data Analysis  $\{02-05\}/2016$ 

Seminars and practical sessions. Lecturer: Dmitry Kropotov.

Machine Learning at the Skolkovo Institute of Science and Technology  $\{11-12\}/2015$ 

Seminars and practical sessions. Lecturer: Victor Kitov.

Optimization Methods in Machine Learning at the Yandex School of Data Analysis  $\{02-05\}/2015$ 

Seminars and practical sessions. Lecturer: Dmitry Kropotov.

# Computer skills

Python, C/C++, MATLAB Languages Version control Git, GitHub, Bitbucket, SVN OSsLinux, Windows, Mac OS X

Other Amazon EC2, LATEX

# Languages

Russian Native English Advanced