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Personal information

Surname(s) / First name(s)	**Danilova, Marina**
Address(es)	1, Bul'var Imeni Umberto Nobile, apt. 250, 141701, Dolgoprudny, Moscow Oblast
Telephone(s)	+7 916 468 52 12 (cell)
Email(s)	danilovamarina15@gmail.com(preferred);danilovamarina15@mail.ru
Nationality(-ies)	Russia
Date of birth	April 15, 1994

Education and training

Date	**September 2012 - July 2016**
Position	BSc degree in Applied Math and Physics
Organization	Moscow Institue of Physics and Technology, 9, Institutskiy per., 141701, Dolgoprudny, Russia
Department	Control and Applied Mathematics
GPA	4.8/5.0
Thesis	Research the method of iteratively reweighted least squares

Date	**September 2016 - July 2018**
Position	MSc degree in Applied Math and Physics
Organization	Moscow Institue of Physics and Technology, 9, Institutskiy per., 141701, Dolgoprudny, Russia
Department	Control and Applied Mathematics
GPA	5.0/5.0
Thesis	Non-monotone behavior of the Heavy ball method

Date	**September 2016 - July 2018**
Position	MSc degree in Information Technology and Engineering
Organization	Skolkovo Institute of Science and Technology, Skolkovo Innovation Center, Building 3, 143026, Moscow, Russia
Department	Energy Systems
GPA	4.6/5.0
Thesis	The non-monotonicity effect and exact estimates of the rate of convergence of some optimization methods

Date	**September 2018 - current**
Position	PhD in Operations research
Organization	Institute for Control Science, RAS, 65, Profsoyuznaya str, 117997, Moscow, Russia

Research interests

Convex optimization; first-order methods; large-scale and huge-scale optimization; stochastic and online optimization; combinatorical optimization

Teaching Experience

2016 - current: Moscow Physical Technical University, Department of Control and Applied Mathematics, "Optimization methods"

2017 - 2018: School No.1518, "Olympiad Mathematics"

2018 - current: Moscow Physical Technical University, Department of Innovation and High Technology, “Optimization methods”

2019: Moscow Physical Technical University, The Russian Presidential Academy of National Economy and Public Administration, “Introduction to convex optimization theory”

Work Experience

2013-2014: Internship at a research institute MNIIEKO TECH

2015: Internship at the Central Bank of the Russian Federation

2017: Internship at the Federal Grid Company of Unified Energy System

2018 - current: Laboratory of Numerical Methods of Applied Structural Optimization, MIPT, Junior Researcher

2019 - current: Researcher at Huawei-MIPT group, Moscow

Summer Schools

- Member of 25th Jyvaskyla Summer School, Finland
- Member of the Traditional Summer Youth School ”Control, Information and Optimization”, Russia

Editorial Activity, etc

- Program committee member, Organizer, 61,62 All-Russian Scientific Conference at MIPT, section of mathematical foundations of control

Awards and achievements

- Diplomas with honours, MIPT
- Abramovskaya scholarship for academic achievement (Foundation for the Development of Innovative Education in the Field of Natural Sciences)
- Increased academic scholarship at Skoltech

Conferences

2018: The 24th International Conference on Difference Equations and Applications

Publications

2016: Kharyonovsky A., Danilova M., Litvinova A., Mahmud T. ”Estimation of influence on environment open cut and underground mining coal” Vestnik UDC 622.85: 622.33 (470)

2017: Kharyonovsky A., Danilova M., ”Protection of the atmosphere at the enterprise of coal industry” Vestnik UDC 622.85 : 622.33

2018: Danilova M., Kulakova A., Polyak B., ”Non-monotone Behavior of the Heavy Ball Method” arxiv.org/abs/1811.00658 (article filed Springer Proceedings in Mathematics and Statistics, Difference Equations and Discrete Dynamical Systems with Applications)

Languages

- English (C1)
- French (A2)

Computer Skills

Operating Systems: Microsoft Windows, Linux, Mac OSX

Programming Language: Python, R, MATLAB, C, C++, Pl SQL, LATEX

Social and Voluntary works:

Member of the aerobics team of the MIPT

Volunteer of organization ”Gift a life”