

Dmitry Grishchenko

PhD student



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About me

I am a second year PhD student in Université Grenoble Alpes. My thesis is devoted to mathematical optimization algorithms for Machine Learning applications.

After graduation from the [Math Department of HSE](#), I enrolled in the master's program [MMOS](#) where I took an interest in mathematical optimization.

Languages

Russian(native), English(fluent), French(basic).

IT Skills

LaTeX

Apache Spark

MPI

Python

C++

STL, Boost C++

VBA, HTML5

Hobbies

In free time I like to solve different [logic puzzles](#). I was a member of Russia main team in the World Championships 2016-18. Winner of two Russian Puzzles Championships 2015, 2017, Moscow Cup 2017, and CIS Puzzles Championship 2018.

I am also interested in playing Russian and International checkers, where I achieved the title of Candidate Master of Sports.

I also like hiking, snowboarding, swimming, and playing football and basketball.

Interests

Distributed optimization algorithms, sparsification via identification.

Education

- since 2017 Ph.D. candidate in Mathematical Optimization [Université Grenoble Alpes](#)
Distributed Optimization for Large-Scale Problems
Thesis supervisors: F. Iutzeler (UGA), M.-R. Amini (UGA), J. Malick (CNRS LJK).
- 2015-2017 M.Sc. Mathematics [HSE, Moscow](#)
Minimal Mutual Information Model Problem
Thesis supervisor: A. Gasnikov (MIPT).
- 2011-2015 B.Sc. Mathematics [HSE, Moscow](#)
Lattices, Sphere Packing and Number Theory
Thesis supervisor: A. Zykin (HSE).

Experience

- since 2018 Teaching assistant [Université Grenoble Alpes](#)
2018-2019
- Matrix Analysis and Numerical Optimization (20h)
 - Convex and Distributed Optimization (20h)
- 2016-2017 Software Developer [Altium, Moscow](#)
PCB design software
Writing the topological tracer library on C++. Establishing and maintaining geometric library. Working with Boost C++ library, unit-tests.
- 2014-2015 Intern in Decision Management Unit [Citibank, Moscow](#)
Help in creating new products passports
Maintaining an online passports creator via MS Sharepoint and SQL.
- 2011-2015 Mathematical Olympiad Works Inspector [The Tournament of Towns](#)
Check the correctness of the solutions
Reading and assessing the works of the high school students.

Certificates

- 2016 Algorithmic Toolbox
An online non-credit course authorized by University of California, San Diego and Higher School of Economics and offered through Coursera.

Conferences and Workshops

- 2018 Talk, [Slides](#) [ISMP 2018, Bordeaux/workshop GOD 2018, Grenoble](#)
Randomized Proximal Algorithm with Automatic Dimension Reduction
- 2018 Poster, [Poster](#) [Journées SMAI-MODE 2018, Autrans](#)
Distributed Optimization with Sparse Communications
- 2016 Talk [59 MIPT Scientific Conference, Moscow](#)
Solving of Minimal Mutual Information Model Problem via Regularization of Dual Problem and Using Ellipsoid Method with Inexact Oracle

Publications

- 2018 [ArXiv](#) Submitted to the [journal track of ECML PKDD 2019](#)
D. Grishchenko, F. Iutzeler, J. Malick, M.-R. Amini:
Asynchronous Distributed Learning with Sparse Communications and Identification
- 2017 [ArXiv](#) Presented: NeurIPS 2018 workshop [PPML'18, Montréal](#)
F. Hanzely, J. Konečný, N. Loizou, P. Richtárik, D. Grishchenko:
Privacy Preserving Randomized Gossip Algorithms
- 2013 [Journal article](#) [Matematicheskoye Prosveshcheniye \(Rus\)](#)
D. Grishchenko:
Origami: What One Can Get via Paper Folding