Dmitry Grishchenko

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I have not failed. I've just found 10,000 ways that won't work.

Thomas A. Edison

Education

Together with F. lutzeler (LJK, Grenoble)

Université Grenoble Alpes Grenoble 2017-now Ph.D. in Applied Mathematics **Subject:** Distributed Optimization for Large-Scale Problems Supervisors: F. lutzeler (UGA), M.-R. Amini (UGA), J. Malick (CNRS and LJK). **Higher School of Economics** Moscow 2015-2017 M.Sc. in Applied Mathematics Thesis: Minimal Mutual Information Model Problem Supervisor: A. Gasnikov (MIPT). **Higher School of Economics** Moscow 2011-2015 M.Sc. in Mathematics **Thesis:** Lattices, Sphere Packing and Number Theory Supervisor: A. Zykin (HSE). **Summer Schools and Research Visits KAUST** Thuwal Research Visit; Adviser: P. Richtarik 2019 **ICCOPT 2019 Berlin** Summer School 2019 mini-cours "optimisation et apprentissage: applications en vision" **Autrans** Summer School 2018 **KAUST** Thuwal Research Visit; Adviser: P. Richtarik 2017 **Scholarships and Grants** PGMO - PRMO Distributed Optimization on Graphs with Flexible Communications, 5k euro 2019-2020

Experience

Vocational

Université Grenoble Alpes Grenoble

Teaching assistant

2018-now

0 2019-2020

- Matrix Analysis and Numerical Optimization (20h)
- o 2018-2019
 - Matrix Analysis and Numerical Optimization (20h)
 - Convex and Distributed Optimization (20h)
 - Optimisation Numérique (20h)

Altium Moscow

Software Developer

2016-2017

PCB design software

Writing the topological tracer library on C++. Establishing and maintaining geometric library. Working with Boost C++ library, unit-tests.

The Tournament of Towns

Moscow 2011–2015

Mathematical Olympiad Works Inspector

Check the correctness of the solutions

Reading and assessing the works of the high school students.

Miscellaneous

Moscow 2014–2015

Citibank

Intern in Decision Management Unit

Help in creating new products passports

Maintaining an online passports creator via MS Sharepoint and SQL.

Languages

Russian: Native Python: numpy, spark, mpi4py, scipy,...

English: Fluent C++: STL, Boost

French: Basic knowledge of: Julia, LaTeX, Markdown

Certificates

Algorithmic Toolbox

Coursera

2016

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

Presentations

Conferences and Workshops.....

ICCOPT 2019 Berlin

Talk 2019

Identification-Based First-Order Algorithms for Distributed Learning

SPARS 2019 Toulouse

Poster 2019

Distributed First-Order Optimization with Tamed Communications

OSL 2019 Les Houches Poster 2019 Identify and Sparsify: Distributed Optimization with Asynchronous Moderate Communications **ISMP 2018 Bordeaux** Talk 2018 Distributed Optimization with Sparse Communications and Structure Identification **Grenoble Optimization Days 2018** Grenoble 2018 Talk Distributed Optimization with Sparse Communications and Structure Identification Journées SMAI-MODE 2018 **Autrans** Poster 2018 Distributed Optimization with Sparse Communications 59^{th} MIPT scientific conference Moscow Talk 2016 Solving of Minimal Mutual Information Model Problem via Regularization of Dual Problem and Using Ellipsoid Other..... **Grenoble Optimization Reading Group** Grenoble 2019 Accelerated Distributed Optimization with Asynchronous Moderate Communications **DAO** team seminar Grenoble 2019 Identify and Sparsify: Distributed Optimization with Asynchronous Moderate Communications Demi-journée des doctorants 2018 Grenoble 2018 Randomized Proximal Algorithm with Automatic Dimension Reduction **Papers** D. Grishchenko, F. lutzeler, and J. Malick **Preprint** Proximal Gradient Methods with Adaptive Subspace Sampling 2019 Under review in MOOR A. Ivanova, **D. Grishchenko**, A. Gasnikov, E. Shulgin **Preprint** Adaptive Catalyst for smooth convex optimization 2019 D. Grishchenko, F. lutzeler, J. Malick, and M.-R. Amini **Preprint** Asynchronous Distributed Learning with Sparse Communications and Identification 2018 F. Hanzley, J. Konecny, N. Loizou, P. Richtarik, D. Grishchenko Workshop A Privacy Preserving Randomized Gossip Algorithm via Controlled Noise Insertion 2018 **PPML NeurIPS 2018** F. Hanzley, J. Konecny, N. Loizou, P. Richtarik, D. Grishchenko **Preprint** Privacy preserving randomized gossip algorithms. 2017 D. Grishchenko **Journal** Origami: What One Can Get via Paper Folding (Rus) 2013 Matematicheskoye Prosveshcheniye