

Dmitry Grishchenko

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Education

Université Grenoble Alpes

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)*

Grenoble

2017–now

Higher School of Economics

M.Sc. in Applied Mathematics

Thesis: *Minimal Mutual Information Model Problem*

Supervisor: *A. Gasnikov (MIPT)*

Moscow

2015–2017

Higher School of Economics

B.Sc. in Mathematics

Thesis: *Lattices, Sphere Packing and Number Theory*

Supervisor: *A. Zykin (HSE)*

Moscow

2011–2015

Publications

D. Grishchenko, F. lutzeler, and J. Malick

Proximal Gradient Methods with Adaptive Subspace Sampling

Under review in **MOOR**

Preprint

2019

A. Ivanova, **D. Grishchenko**, A. Gasnikov, E. Shulgin

Adaptive Catalyst for smooth convex optimization

Preprint

2019

D. Grishchenko, F. lutzeler, J. Malick, and M.-R. Amini

Asynchronous Distributed Learning with Sparse Communications and Identification

Preprint

2018

F. Hanzley, J. Konecny, N. Loizou, P. Richtarik, **D. Grishchenko**

A Privacy Preserving Randomized Gossip Algorithm via Controlled Noise Insertion

PPML NeurIPS 2018

Workshop

2018

F. Hanzley, J. Konecny, N. Loizou, P. Richtarik, **D. Grishchenko**

Privacy Preserving Randomized Gossip Algorithms

Preprint

2017

D. Grishchenko

Origami: What One Can Get via Paper Folding (Rus)

Matematicheskoye Prosveshcheniye

Journal

2013

Scholarships and Grants

PGMO - PRMO

Distributed Optimization on Graphs with Flexible Communications, 5k euro

Together with F. lutzeler (LJK, Grenoble)

2019–2020

Summer Schools and Research Visits

Research Visit; Adviser: P. Richtarik	KAUST, Thuwal 2019
<u>ICCOPT 2019 Summer School</u>	Berlin 2019
<u>Mini-cours "optimisation et apprentissage: applications en vision"</u>	Autrans 2018
Research Visit; Adviser: P. Richtarik	KAUST, Thuwal 2017

Teaching Experience

Université Grenoble Alpes <i>Teaching assistant</i>	Grenoble 2018–now
<ul style="list-style-type: none">○ 2019–2020<ul style="list-style-type: none">- Matrix Analysis and Numerical Optimization (20h)○ 2018–2019<ul style="list-style-type: none">- Matrix Analysis and Numerical Optimization (20h)- Convex and Distributed Optimization (20h)- Optimisation Numérique (20h)	

Working Experience

Altium <i>Software Developer</i> <i>PCB design software</i> Writing the topological tracer library on C++. Establishing and maintaining geometric library. Working with Boost C++ library, unit-tests.	Moscow 2016–2017
Citibank <i>Intern in Decision Management Unit</i> <i>Help in creating new products passports</i> Maintaining an online passports creator via MS Sharepoint and SQL.	Moscow 2014–2015
The Tournament of Towns <i>Mathematical Olympiad Works Inspector</i> <i>Check the correctness of the solutions</i> Reading and assessing the works of the high school students.	Moscow 2011–2015

Languages

Russian: Native	Python: numpy, spark, mpi4py, scipy,...
English: Fluent	C++: STL, Boost
French: Basic	knowledge of: Julia , L^AT_EX , Markdown

Certificates

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

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

Talk

2018

Distributed Optimization with Sparse Communications and Structure Identification

Journées SMAI-MODE 2018

Autrans

Poster

2018

Distributed Optimization with Sparse Communications

59th MIPT scientific conference

Moscow

Talk

2016

Solving of Minimal Mutual Information Model Problem via Regularization of Dual Problem and Using Ellipsoid Method with Inexact Oracle

Other.....

Grenoble Optimization Reading Group

Grenoble

Talk

2019

Accelerated Distributed Optimization with Asynchronous Moderate Communications

DAO team seminar

Grenoble

Talk

2019

Identify and Sparsify: Distributed Optimization with Asynchronous Moderate Communications

Demi-journée des doctorants 2018

Grenoble

Talk

2018

Randomized Proximal Algorithm with Automatic Dimension Reduction