

Dmitry Grishchenko

Male, 24 July 1994, Russian

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Education

Université Grenoble Alpes

Grenoble

Ph.D. in Applied Mathematics

Oct. 2017 – Nov. 2020

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

M.Sc. in Applied Mathematics

Sept. 2015 – June 2017

Thesis: Minimal Mutual Information Model Problem

Supervisor: A. Gasnikov (MIPT)

Higher School of Economics

Moscow

B.Sc. in Mathematics

Sept. 2011 – June 2015

Thesis: Lattices, Sphere Packing and Number Theory

Supervisor: A. Zykin (HSE)

Publications

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

Conference

[Sparse Asynchronous Distributed Learning](#)

2020

ICONIP 2020

G. Bareilles, Y. Laguel, D. Grishchenko, F. lutzeler, J. Malick

Toolbox

[Randomized Progressive Hedging methods for Multi-stage Stochastic Programming](#)

2020

To appear in ANOR

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

Preprint

[Proximal Gradient Methods with Adaptive Subspace Sampling](#)

2019

To appear in MOOR

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

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

Summer Schools and Research Visits

Research Visit; Adviser: P. Richtarik

KAUST, Thuwal
2019

ICCOPT 2019 Summer School

Berlin
2019

Mini-cours "optimisation et apprentissage: applications en vision"

Autrans
2018

Research Visit; Adviser: P. Richtarik

KAUST, Thuwal
2017

Teaching Experience

Université Grenoble Alpes

Grenoble

Teaching assistant

Sept. 2018 – May 2020

- 2019–2020
 - Matrix Analysis and Numerical Optimization (20h)
 - Optimisation Numérique (30h)
- 2018–2019
 - Matrix Analysis and Numerical Optimization (20h)
 - Convex and Distributed Optimization (20h)
 - Optimisation Numérique (20h)

Working Experience

Huawei (as contractor)

Moscow

Senior Engineer

Aug. 2020 – Now

PCB design software

Writing the geometrical library on C++.

Altium

Moscow

Software Developer

Jan. 2016 – Sept. 2017

PCB design software

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

Citibank

Moscow

Intern in Decision Management Unit

July 2014 – Feb. 2015

Help in creating new products passports

Maintaining an online passports creator via MS Sharepoint and SQL.

The Tournament of Towns

Moscow

Mathematical Olympiad Works Inspector

Oct. 2011 – May 2015

Check the correctness of the solutions

Reading and assessing the works of the high school students.

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.....

ICONIP 2020

online

[Talk](#)

2020

Sparse Asynchronous Distributed Learning

ICCOPT 2019

Berlin

2019

[Talk](#)

Identification-Based First-Order Algorithms for Distributed Learning

SPARS 2019

Toulouse

2019

[Poster](#)

Distributed First-Order Optimization with Tamed Communications

OSL 2019

Les Houches

2019

[Poster](#)

Identify and Sparsify: Distributed Optimization with Asynchronous Moderate Communications

ISMP 2018

Bordeaux

2018

[Talk](#)

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

2018

[Poster](#)

Distributed Optimization with Sparse Communications

59th MIPT scientific conference

Moscow

2016

[Talk](#)

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

Other.....

Ph.D. defence

Grenoble

2020

[Talk](#)

Proximal Optimization with Automatic Dimension Reduction for Large Scale Learning.

Grenoble Optimization Reading Group

Grenoble

2019

[Talk](#)

Accelerated Distributed Optimization with Asynchronous Moderate Communications

DAO team seminar

Grenoble

2019

[Talk](#)

Identify and Sparsify: Distributed Optimization with Asynchronous Moderate Communications

Demi-journée des doctorants 2018

Grenoble

2018

[Talk](#)

Randomized Proximal Algorithm with Automatic Dimension Reduction

Scholarships and Grants

PGMO - PRMO

Distributed Optimization on Graphs with Flexible Communications, 5k euro
Together with F. Lutzeler (LJK, Grenoble)

2019-2020

Hobbies

In free time I like to solve different [logic puzzles](#). I was a member of Russia main team in the World Championships 2016 – 19. 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.