

GRIGORY MALINOVSKY

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Thuwal, Saudi Arabia

EDUCATION

M.S./Ph.D. in Applied Mathematics and Comp. Science

King Abdullah University of Science and Technology

Aug. 2020 – Present

Thuwal, Saudi Arabia

- Advisor: **Peter Richtárik**

B.S. in Applied Mathematics and Physics

Moscow Institute of Physics and Technology

Sept. 2014 – July 2019

Dolgoprudny, Russia

- Thesis: "Averaged Heavy Ball Method" | Advisor: **Boris Polyak**
- Major: Machine Learning
- GPA: 4.73/5.0

RESEARCH INTERESTS

Stochastic Optimization, Machine Learning, Statistics

PAPERS

- Distributed Proximal Splitting Algorithms with Rates and Acceleration**
Laurent Condat, **Grigory Malinovsky**, Peter Richtárik
NeurIPS, Spotlight at workshop on Optimization for Machine Learning OPT2020
- From Local SGD to Local Fixed-Point Methods for Federated Learning**
Grigory Malinovsky, Dmitry Kovalev, Elnur Gasanov, Laurent Condat, Peter Richtárik
International Conference on Machine Learning ICML 2020
- Random Reshuffling with Variance Reduction: New Analysis and Better Rates**
Grigory Malinovsky, Alibek Sailanbayev, Peter Richtárik
(Submitted to ICML 2021, under review)

POSTERS AND TALKS

- Talk "Determination of data complexity using a universal approximating model"
Mathematical Methods for Pattern Recognition: the 19th Russian National Conference with International Participation
Moscow, Russia, Nov. 26-29, 2019 **Book of abstracts**
- Talk "Averaged Heavy Ball Method"
62th Scientific conference at MIPT, Section of Data analysis, recognition and prediction"
Dolgoprudny, Russia, Nov. 18-23, 2019
- Poster "Averaged Heavy Ball Method"
Traditional Youth School
"Control, Information and Optimization"
Voronovo, Russia, June 17-22, 2019

TEACHING

Teaching assistant for the courses

- Optimization Methods MIPT Fall 2019
- Machine Learning MIPT Spring 2019

Physics Tutor

2017 – 2020

Preparation of 7-11th grade students for the Olympiads

INDUSTRIAL EXPERIENCE

Huawei-MIPT Project

Jan. – July 2020

Researcher, Non-Convex Optimization in Digital Pre-Distorter Development
Moscow, Russia

Tinkoff Summer Internship

July 2017

Data Analyst, Customer Classification
Moscow, Russia

RESEARCH VISITS

KAUST/Peter Richtárik

Jan. – Feb. 2020

Visual Computing Center
Thuwal, Saudi Arabia

SCHOLARSHIPS, HONORS AND AWARDS

- Best talk award** in 62th Scientific conference at MIPT, Section of "Data analysis, recognition and prediction"
Dolgoprudny, Russia, Nov. 18–23, 2019
- Best poster award** in Traditional Youth School "Control, Information and Optimization"
Voronovo, Russia, June 17–22, 2019
- Changellenge Cup Russia 2017, Russian section, case competition
High quality 25. Moscow, Russia, Mar. 2017
- Abramov scholarship** for 1-3 year bachelor students with the best grades at MIPT, Sept. 2016 - Jan. 2017
- Bronze medal** at International Zhaautykov Physics Olympiad, Almaty, Kazakhstan, 2014
- Prizewinner** of Final Round of All-Russian Physics Olympiad, Vladivostok, 2013
- Prizewinner** of many Russian and University school Olympiads in Physics, Astronomy and Mathematics, 2010-2014
- Participant** of Final Round of All-Russian Physics Olympiad, Saint Petersburg, 2014

SKILLS

- Languages: Russian (native), English (fluent)
- Programming: Python, C, SQL Server, MATLAB (basic), R (basic)
- Python libraries: Pandas, Matplotlib, NumPy, SciPy, SciKit-Learn, PyTorch
- Software: Git, LaTeX, Microsoft Office

EXTRACURRICULAR ACTIVITIES

- Activist of academic department in Student Council Jan. 2019 – Jan. 2020
- Organizer of school Olympiads in mathematics and physics Feb. 2016

HOBBIES

Fitness, Martial Arts, Football, Basketball