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FDUCATION

MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY

BACHELOR OF SCIENCES

Department of Control and Applied Mathematics Specialization: Applied Mathematics and Physics

Thesis: «Stochastic coordinate descent method with arbitrary sampling»

Supervisor: Peter Richtárik September 2014 - August 2019 GPA: 7.55/10

MASTER OF SCIENCES

Department of Control and Applied Mathematics Specialization: Applied Mathematics and Physics GPA: 8.79/10

September 2019 - Present

RESEARCH INTERESTS

Optimization, Randomized Algorithms, Machine Learning

SKILLS

PROGRAMMING LANGUAGES: python, matlab, C/C++, T-SQL, LATEX LANGUAGES: Russian (Native), English (B2), German(A2)

WORK FXPFRIFNCE

MOSCOW INSTITUTE OF PHYSICS AND TECHNOLOGY

• PETER RICHTÁRIK'S RESEARCH GROUP OF RANDOMIZED ALGORITHMS FOR DISTRIBUTED OPTIMIZATION PROBLEMS

Junior researcher September 2018 - October 2019

INTERNSHIPS

KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

 VISUAL COMPUTING CENTER Kingdom of Saudi Arabia January 2019 - February 2019

CONFERENCES & TALKS

- SEMINAR «MODERN OPTIMIZATION METHODS»
 - Talk: «A coordinate descent method without preprocessing» MIPT, 17 December 2019
 - Talk: «Accelerated coordinate descent with arbitrary sampling» MIPT, 18 March 2019
- THE SIXTH INTERNATIONAL CONFERENCE ON CONTINUOUS OPTIMIZATION Berlin, August 2019
- TRADITIONAL MATH SCHOOL (Machine Learning and Optimization) Voronovo, June 2018
- THE COMPUTER SCIENCE CONFERENCE FOR PUPILS National Research University of Electronic Technology, Moscow, June 2012
- THE COMPUTER SCIENCE CONFERENCE FOR PUPILS National Research University of Electronic Technology, Moscow, June 2011

PAPERS

• «STOCHASTIC COORDINATE DESCENT WITH RANDOM STEPSIZE AND ARBITRARY SAMPLING» Being prepared to submission to the "Optimization letters" March 2020 arxiv

TRAINING

SAMSUNG RESEARCH RUSSIA

• MACHINE LEARNING IN BUSINESS **ANALYTICS** July 2019

COURSERA

- «Introduction to Deep **LEARNING**» January 2020
- «DIVIDE AND CONQUER, SORTING AND SEARCHING, AND RANDOMIZED ALGORITHMS» May 2019
- «Mathematics and Python for DATA ANALYSIS» June 2017 - July 2017

COMPUTER TRAINING CENTER

- SETTING AND REPAIR OF PC September 2011 – May 2012
- Programming C/C++, WinApi, OpenGL, HTML, September 2010 - May 2013

ADDITIONAL SCHOOLS

- Moscow State University MATHEMATICS SCHOOL Moscow, Sep 2012 - May 2013
- SCHOOL OF PHYSICS AND MATHEMATICS OF MIPT Moscow, Sep 2013 - May 2014

COURSE PROJECTS

- BACKGROUND AND FOREGROUND ESTIMATION VIA ROBUST PCA GitHub project page, Source code
 Jan 2020
- BENCHMARKING OF QUASI-NEWTON METHODS GitHub project page, Source code, Poster June 2018
- REALIZATION OF THE SPLITTING SCHEME FOR THE HEAT EQUATION
 Implemented the numerical solution for the two-dimensional heat equation
 GitHub project page, Source code
 May 2017
- SIMPLE PHYSICAL ENGINE & DEMONSTRATION PROGRAM

 The project consists of a simple 2D physics engine and a program that uses this engine and draws the scene

 GitHub project page, YouTube demonstration

 May 2016

HONORS & AWARDS

- WINNER OF THE «PHYSTECH 2014» OLYMPIAD ON PHYSICS March 2014
- WINNER OF THE REGIONAL STAGE OF ALL-RUSSIAN OLYMPIAD ON PHYSICS October 2013
- 2ND PLACE AT «THE COMPUTER SCIENCE CONFERENCE FOR PUPILS»
 June 2013
- 2ND PLACE AT «THE COMPUTER SCIENCE CONFERENCE FOR PUPILS»
 June 2012
- WINNER OF «THE PROGRAMMING OLYMPIAD»
 June 2011

HOBBIES

- Jogging
- BADMINTON
- Snowboarding
- TRAVELLING