University of Washington Personal Site Contact Information 202 Lewis Hall GitHub Seattle, 98105 LinkedIn USA Research **Focused on** optimization techniques for mixed-effect models in population health. Interests Broadly: numerical optimization, machine learning, statistics. EDUCATION University of Washington, Seattle, USA Graduation in June 2023 Ph.D. Student in the Department of Applied Mathematics; • Research Advisor: Aleksander Aravkin Moscow Institute of Physics and Technology, Moscow, Russia July 2018 B.Sc. in Applied Mathematics and Physics, Department of Control and Applied Mathematics • Thesis Title: Multi-armed Bandits in Demand-Response Problems • Research Advisor: Yury Maximov ITMO University, Saint-Petersburg, Russia August 2015 B. Sc. in Computer Science, incomplete, program transfer 1. Belyy, A., Sholokhov. A., "MEMOIR: Multi-class Extreme Classification with Preprints Inexact Margin." arXiv preprint arXiv:1811.09863 (2018). 1. Belyv A.V., Selezniova, M.S., Sholokhov, A., and Vorontsov, K., "Quality Conferences Evaluation and Improvement for Hierarchical Topic Modelling." 24rd International Conference on Computational Linguistics and Intellectual Technologies 2. Selezniova, M.S., Belyv A.V., and Sholokhov, A., "Heterogeneous Aggregation of Text Data into Hierarchical Topic Models" 2017. 60th Scientific MIPT Conference. 3. Sholokhov, A., "Conditional Coordinate Descent Method for Large-Scale Statistical Estimations" 2017. 60th Scientific MIPT Conference. Poster Sessions 1. Sholokhov, A., "Conditional Coordinate Descent Method for Large-Scale Statistical Estimations" 2017. 2nd Physics Informed Machine Learning AND TALKS Teaching Teaching Associate in University of Washington January 2019 - Present EXPERIENCE

Teaching Associate in University of Washington

Calculus with Analytic Geometry II
Calculus with Analytic Geometry II
Spring 2019
Scientific Computing in MATLAB
Optimization: Fundamentals and Applications
High Performance Scientific Computing

Teaching Assistant in Remote High School of MIPT

January 2019 – Present
Winter 2019
Spring 2019
Spring 2020

Spring 2020

September 2015 – 2016

• Mathematics, General Physics

Research EXPERIENCE

Institute for Health Metrics and Evaluation, UW

August, 2019 - Present

Graduate Research Assistant in Math Science Team. Projects:

- CurveFit: tool that forecasts deaths from COVID-19 for the IHME Projections.
- SkMixed: SciKit-Learn compatible tool for selecting features in mixed models.

Grenoble Informatics Laboratory, UGA

March, June, October 2018

Visiting Research Student working on large-scale multi-label classification. Pre-print

Center for Nonlinear Studies, LANL

Visiting Research Student working on reinforcement learning in demand-response problems for power systems control. This work resulted in my bachelor thesis.

AWARDS

Study Awards

• University of Washington's Top Scholar Award,

September 2018

• MIPT Scholarship "For Outstanding Studying Effort"

December 2015

OTHER

Competitions and Contests:

ACHIEVEMENTS AND AWARDS

• First prize in Microsoft Imagine Cup 2015 regional final

April, 2015

• First prize in Business Case Solving Contest "Changellenge 2013"

Social and Other Experience

• University Case Club President in ITMO University

May 2014 - April 2015

HARDWARE AND

Computer Programming:

Software Skills • GitHub: aksholokhov

• Python, MATLAB, C/C++, Java, Scala

OTHER SKILLS

Languages:

- English Advanced (C1). TOEFL IBT: 106/120.
- Russian Native