

CONTACT INFORMATION	University of Washington 202 Lewis Hall Seattle, 98105 USA	Personal Site GitHub LinkedIn
RESEARCH INTERESTS	Focused on optimization techniques for mixed-effect models in population health. Broadly: statistical models, machine learning, nonconvex optimization.	
RESEARCH EXPERIENCE	Institute for Health Metrics and Evaluation, UW Graduate Research Assistant in Math Science Team. Projects: <ul style="list-style-type: none"> Developed pipeline 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 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 .	August, 2019 - Present March, June, October 2018 January, 2018
PUBLICATIONS	1. Modeling COVID-19 scenarios for the United States . IHME Covid-19 Forecasting Team (methods contributor). <i>Nature Medicine</i> .	
PREPRINTS	1. “MEMOIR: Multi-class Extreme Classification with Inexact Margin.” Belyy, A., Sholokhov, A. , <i>arXiv preprint arXiv:1811.09863 (2018)</i> .	
CONFERENCES	1. “Quality Evaluation and Improvement for Hierarchical Topic Modelling.” , Belyy A.V., Selezniova, M.S., Sholokhov, A. , and Vorontsov, K., <i>24rd International Conference on Computational Linguistics and Intellectual Technologies</i> 2. “Heterogeneous Aggregation of Text Data into Hierarchical Topic Models” Selezniova, M.S., Belyy A.V., and Sholokhov, A. , 2017. <i>60th Scientific MIPT Conference</i> . 3. “Conditional Coordinate Descent Method for Large-Scale Statistical Estimations” 2017. Sholokhov, A. , <i>60th Scientific MIPT Conference</i> .	
POSTER SESSIONS AND TALKS	1. “Conditional Coordinate Descent Method for Large-Scale Statistical Estimations” Sholokhov, A. , 2017. <i>2nd Physics Informed Machine Learning</i>	

TEACHING EXPERIENCE	Teaching Associate in University of Washington	January 2019 – Present
	<ul style="list-style-type: none"> • Calculus with Analytic Geometry II • Calculus with Analytic Geometry II • Scientific Computing in MATLAB • Optimization: Fundamentals and Applications • High Performance Scientific Computing 	Winter 2019 Spring 2019 Fall 2019 Winter 2020 Spring 2020
	Teaching Assistant in Remote High School of MIPT	September 2015 – 2016
	<ul style="list-style-type: none"> • Mathematics, General Physics 	
EDUCATION	University of Washington , Seattle, USA	Graduation in June 2023
	Ph.D. Student in the Department of Applied Mathematics ; <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Thesis Title: <i>Multi-armed Bandits in Demand-Response Problems</i> • Research Advisor: Yury Maximov 	
AWARDS	Study Awards	
	<ul style="list-style-type: none"> • University of Washington's Top Scholar Award, • MIPT Scholarship "For Outstanding Studying Effort" 	September 2018 December 2015
OTHER ACHIEVEMENTS AND AWARDS	Competitions and Contests:	
	<ul style="list-style-type: none"> • First prize in Microsoft Imagine Cup 2015 regional final • First prize in Business Case Solving Contest "Changellenge 2013" 	April, 2015
	Social and Other Experience	
	<ul style="list-style-type: none"> • University Case Club President in ITMO University 	May 2014 - April 2015
HARDWARE AND SOFTWARE SKILLS	Computer Programming:	
	<ul style="list-style-type: none"> • GitHub: aksholokhov • Python, MATLAB, C/C++, Java, Scala 	
OTHER SKILLS	Languages:	
	<ul style="list-style-type: none"> • English – Advanced (C1). TOEFL IBT: 106/120. • Russian – Native 	