

EDUCATION

- **University of Cambridge, Department of Engineering** Cambridge, United Kingdom
PhD program. Supervisor: Dr. A. Weller. Advisor: Dr. J. M. Hernández-Lobato. 2019-present
- **Skoltech, Higher School of Economics** Moscow, Russia
Joint MSc program “Statistical Learning Theory”. Academic Excellence Diploma; GPA: 5.0/5.0. 2017-2019
- **Yandex School of Data Analysis** Remote, Russia
A Master-level program in Data Analysis; GPA: 4.86/5.0. 2015-2017
- **Ural Federal University** Yekaterinburg, Russia
BSc program in Computer Science; GPA: 4.95/5.0. 2013-2017

RESEARCH EXPERIENCE & PUBLICATIONS - *click on a paper name to link to the full text*

- **Computationally-efficient recurrent and self-attention architectures** University of Cambridge
Research project in collaboration with researchers at Google 2019-present
 - K. Choromanski, D. Cheikh*, J. Davis*, V. Likhosherstov*, et. al. *Stochastic Flows and Geometric Optimization on the Orthogonal Group*. ICML 2020.

Works in submission as first author or major contributor

- V. Likhosherstov*, J. Davis*, K. Choromanski, A. Weller. *CWY Parametrization: a Solution for Parallelized Learning of Orthogonal and Stiefel Matrices*. Arxiv:2004.08675, 2020.
- K. Choromanski*, V. Likhosherstov*, et al. *Masked Language Modeling for Proteins via Linearly Scalable Long-Context Transformers*. Arxiv:2006.03555, 2020.
- V. Likhosherstov*, X. Song, K. Choromanski, J. Davis, A. Weller. *UFO-BLO: Unbiased First-Order Bilevel Optimization*. Arxiv:2006.03631, 2020.

Additional works in submission as contributor

- J. Davis, K. Choromanski, J. Varley, H. Lee, J. Slotine, V. Likhosherstov, et al. *Time Dependence in Non-Autonomous Neural ODEs*, Arxiv:2005.01906, 2020.
- K. Choromanski*, J. Davis*, V. Likhosherstov*, et al. *An Ode to an ODE*, Arxiv:2006.11421, 2020.

- **Tractable Ising Models** Moscow, Russia
MSc Thesis. Supervisor: Prof Michael Chertkov (University of Arizona, Skoltech) 2017-2019
 - V. Likhosherstov, Y. Maximov, M. Chertkov. *Inference and Sampling of K_{33} -free Ising Models*. ICML 2019.

- **Samsung AI Center** Moscow, Russia
Research Internship. supervisor: Prof Victor Lempitsky (Skoltech) Summer 2018
 The goal was to translate 3D human pose data into a high-resolution image of a person using deep learning. Successfully completed.

- **Book Reading Behaviour** Yekaterinburg, Russia
Course project 2015-2016
 The aim was to analyse e-book reading behaviour based on logs from the Bookmate application. Publications:
 - P. Braslavski, V. Petras, V. Likhosherstov, M. Gade. *Ten Months of Digital Reading: An Exploratory Log Study*. TPD'2016.
 - P. Braslavski, V. Petras, V. Likhosherstov, M. Gade. *Large-Scale Log Analysis of Digital Reading*. ASIST'2016.

WORK EXPERIENCE

- **Google UK Ltd** London, United Kingdom
Software Engineering Internship Summer 2017
Adding new features for a Sibyl classifier for large-scale internal machine learning task. Successfully completed.
- **Google Summer of Code** Remote
Participation Summer 2016
A contribution to the Statsmodels package for statistics and econometrics. Successfully completed.