MIKHAIL YUROCHKIN

PhD Candidate, University of Michigan

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RESEARCH INTERESTS

Bayesian Modeling, Topic Modeling, scalable MCMC, Algorithmic Convex Geometry, Deep Learning

EDUCATION

Ph.D. in Statistics, University of Michigan, Ann Arbor — Anticipated May 2018
Advisor: XuanLong Nguyen
Coursework Highlights: Bayesian Nonparametrics, Bayesian Computation, Optimization Methods, Numerical Methods, Multivariate Analysis, Data Manipulation, Information Retrieval, Statistical Machine Learning, Poisson Processes, Functional Data Analysis

M.A. in Statistics, University of Michigan, Ann Arbor — June 2015

Bachelors Diploma in Applied Mathematics and Physics, Moscow Institute of Physics and Technology, Russia — June 2013

PUBLICATIONS & PRESENTATIONS

Yurochkin M., Guha A. & Nguyen X. (2017). Conic Scan-and-Cover algorithms for nonparametric topic modeling. *Advances in Neural Information Processing Systems (NIPS) 31*, 2017.
Yurochkin M., Nguyen X. & Vasiloglou N. (2017). Multi-way Interacting Regression via Factorization Machines. *Advances in Neural Information Processing Systems (NIPS) 31*, 2017.
Ho N., Nguyen X., **Yurochkin M.**, Bui H., Huynh V. & Phung D. (2017). Multilevel Clustering via Wasserstein Means. *International Conference on Machine Learning (ICML) 34*, 2017.
Yurochkin M. & Nguyen X. (2016). Geometric Dirichlet Means algorithm for topic inference. *Advances in Neural Information Processing Systems (NIPS) 29*, 2016.
Yurochkin M. & Nguyen X. (2015). Geometric Topic Modeling. *From Industrial Statistics to Data Science Conference.* Poster Presentation.

RESEARCH AND WORK EXPERIENCE

Adobe Research — Jun 2017 to Aug 2017
Data science research intern. Developed novel approach for deep learning on graph structured data.
This work resulted in a paper submission to ICLR 2018 and a patent application.

Consulting for Statistics, Computing, and Analytics Research at University of Michigan — Sept 2016 to Present
Individual appointments and walk-in consultations for faculty and graduate students from various research areas.

LogicBlox, Predictix — May 2016 to Aug 2016
Science team intern. Developed a novel model for retail demand forecasting.
This work is published in NIPS 2017.

Reviewer experience
ICLR 2018, NIPS 2017, ICML 2017, JCGS 2016, NIPS 2016

Contributing to the NSF Supported Projects

Exploiting Data Relationships to Detect Insider Attacks	Jan 2015 to Present
Geometric approaches to hierarchical and nonparametric model-based inference	Jun 2016 to Present

Graduate Student Instructor

Topics in Biostatistics	Jan 2015 to April 2016
Applied Probability	Sept 2014 to Dec 2014
Introduction to Statistics	Jan 2014 to April 2014
Introduction to Probability	Sept 2013 to Dec 2013

Other

Programming: Python (including parallel programming, Cython, TensorFlow), R

Github: https://github.com/moonfolk

Webpage: http://www-personal.umich.edu/~moonfolk/

Languages: Russian, English

Hobbies: Board game "Magic: The Gathering", logic puzzles, sports (soccer, table tennis, ice skating, alpine skiing)