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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. To be submitted to ICLR 2018

**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**

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)