

Education

Ph.D., Statistics

2013 – 2018

University of Michigan, Ann Arber, MI, United States

University of Michigan, Ann Arbor, MI, United States

- o Thesis: "Geometric Inference in Bayesian Hierarchical Models with Applications to Topic Modeling"
- o Advisor: Professor XuanLong Nguyen

Master of Arts, Statistics 2013 – 2015

University of Michigan, Ann Arbor, MI, United States

Bachelor's, Applied Mathematics and Physics

2009 - 2013

Moscow Institute of Physics and Technology, Moscow, Russia

Research Experience

Research Staff Member June 2018 – Present

IBM Research and MIT-IBM Watson AI Lab, Cambridge, MA, United States Machine Learning and Artificial Intelligence research.

- Leading research projects supporting IBM's platform for Large Language Models.
- o Leading research teams on Algorithmic Fairness, Federated Learning, Out-of-Distribution Generalization, and Optimal Transport projects. Our work is regularly published in top-tier Machine Learning and Artificial Intelligence venues.
- Leading a team of engineers to create AI Fairness software and demonstrations.
- o Leading interdisciplinary fairness research collaborations with human-computer interaction and healthcare groups.
- o Mentoring graduate students and collaborating with academic research groups, including Yuekai Sun's group at the University of Michigan, Justin Solomon's Geometric Data Processing group at MIT, and Anette (Peko) Hosoi's group at MIT.
- o Regularly representing IBM Research at conferences and workshops via invited talks and tutorial presentations.

Research Associate May 2018 – June 2018

University of Michigan, Ann Arbor, MI, United States

- o Led two research projects in collaboration with senior PhD students and faculty resulting in two NeurIPS 2018 submissions.
- o Studied driving behaviors using Bayesian modeling in collaboration with the Toyota Research Institute.

Data science research intern

June 2017 - Aug 2017

Adobe, San Jose, CA, United States

o Proposed a method for jointly training a graph neural network and inferring the graph structure when the graph is unknown. Applied this method to forecasting number of visits to a major retailer's website across cities for improved marketing and sales.

Consultant for Statistics, Computing, and Analytics Research

Sept 2016 - Dec 2017

University of Michigan, Ann Arbor, MI, United States

o Assisted faculty and graduate students in areas such as biology, dentistry, marketing, political science, public health, and computer science in identifying and implementing appropriate statistical methodology for their data and research problems.

Science team intern May 2016 – Aug 2016

LogicBlox/Predictix, Atlanta, GA, United States

o Proposed and implemented an explainable forecasting model based on Factorization Machines and Indian Buffet Process. Analyzed sales data from a major retailer using the proposed model and published a NeurIPS 2017 paper based on this work.

Graduate Student Research Assistant

July 2014 - April 2018

University of Michigan, Ann Arbor, MI, United States

- o Formulated topic modeling as a geometric problem and developed new algorithms significantly outperforming prior state-of-the-art in terms of estimation speed. These results were published at NeurIPS 2016 and 2017.
- o Proposed Bayesian modeling approaches to identify insider attacks from SQL queries of a bank database.

Teaching Experience

Guest Lecturer on Fairness in ML @ University of Michigan, Introduction to ML Class **Graduate Student Instructor**Nov 2022

Sept 2013 – April 2016

University of Michigan, Ann Arbor, MI, United States

Taught labs, graded, held office hours:

o Topics in Biostatistics

Jan 2015 – April 2016

o Applied Probability Sept 2014 – Dec 2014

Introduction to Statistics
 Introduction to Probability
 Sept 2013 – Dec 2013

o introduction to Probability Sept 2013 – Dec 20

Publications

- [1] T. Shnitzer, A. Ou, M. Silva, K. Soule, Y. Sun, J. Solomon, N. Thompson, and **M. Yurochkin**. Large Language Model Routing with Benchmark Datasets. *arXiv* preprint *arXiv*:2309.15789, 2023.
- [2] H. Wang, F. Polo, Y. Sun, S. Kundu, E. Xing, and **M. Yurochkin**. Fusing Models with Complementary Expertise. arXiv preprint arXiv:2310.01542, 2023.
- [3] L. Ngweta, S. Maity, A. Gittens, Y. Sun, and **M. Yurochkin**. Simple Disentanglement of Style and Content in Visual Representations. In *International Conference on Machine Learning (ICML)*, 2023.
- [4] K. Greenewald, A. Gu, **M. Yurochkin**, J. Solomon, and E. Chien. k-Mixup regularization for deep learning via optimal transport. *Transactions on Machine Learning Research (TMLR)*, 2023.
- [5] S. Maity, **M. Yurochkin**, M. Banerjee, and Y. Sun. Understanding new tasks through the lens of training data via exponential tilting. In *International Conference on Learning Representations (ICLR)*, 2023.
- [6] L. Li, N. Aigerman, V. Kim, J. Li, K. Greenewald, **M. Yurochkin**, and J. Solomon. Learning Proximal Operators to Discover Multiple Optima. In *International Conference on Learning Representations (ICLR)*, 2023.
- [7] L. Li, Q. Liu, A. Korba, **M. Yurochkin**, and J. Solomon. Sampling with Mollified Interaction Energy Descent. In *International Conference on Learning Representations (ICLR)*, 2023.
- [8] Z. Ashktorab, B. Hoover, M. Agarwal, C. Dugan, W. Geyer, H.B. Yang, and M. Yurochkin. Fairness Evaluation in Text Classification: Machine Learning Practitioner Perspectives of Individual and Group Fairness. In CHI Conference on Human Factors in Computing Systems, 2023.
- [9] S. Xue, Y. Sun, and **M. Yurochkin**. Calibrated Data-Dependent Constraints with Exact Satisfaction Guarantees. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2022. **Oral**.
- [10] D. Mukherjee, F. Petersen, **M. Yurochkin**, and Y. Sun. Domain Adaptation meets Individual Fairness. And they get along. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2022.
- [11] **M. Yurochkin** and Y. Sun. Communication-Efficient Model Fusion. In H. Ludwig and N. Baracaldo, editors, *Federated Learning: A Comprehensive Overview of Methods and Applications*, pages 145–176. Springer International Publishing, Cham, 2022.
- [12] M. Agarwal, M. Yurochkin, and Y. Sun. Personalization in Federated Learning. In H. Ludwig and N. Baracaldo, editors, Federated Learning: A Comprehensive Overview of Methods and Applications, pages 71–98. Springer International Publishing, Cham, 2022.
- [13] T. Shnitzer, M. Yurochkin, K. Greenewald, and J. Solomon. Log-Euclidean Signatures for Intrinsic Distances Between Unaligned Datasets. In *International Conference on Machine Learning (ICML)*, 2022.

- [14] B.C. Kwon, U. Kartoun, S. Khurshid, M. Yurochkin, S. Maity, D. Brockman, A. Khera, P. Ellinor, S. Lubitz, and K. Ng. RMExplorer: A Visual Analytics Approach to Explore the Performance and the Fairness of Disease Risk Models on Population Subgroups. In *IEEE Visualization Conference (VIS) Short Papers*, 2022.
- [15] I. Baldini, D. Wei, K. Ramamurthy, **M. Yurochkin**, and M. Singh. Your fairness may vary: Pretrained language model fairness in toxic text classification. In *Findings of ACL*, 2022.
- [16] W. Stephenson, S. Ghosh, T. Nguyen, M. Yurochkin, S. Deshpande, and Broderick T. Measuring the sensitivity of Gaussian processes to kernel choice. In *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2022.
- [17] F. Petersen, D. Mukherjee, Y. Sun, and **M. Yurochkin**. Post-processing for Individual Fairness. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2021.
- [18] M. Agarwal, **M. Yurochkin**, and Y. Sun. On sensitivity of meta-learning to support data. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2021.
- [19] S. Maity, D. Mukherjee, **M. Yurochkin**, and Y. Sun. Does enforcing fairness mitigate biases caused by subpopulation shift? In *Advances in Neural Information Processing Systems (NeurIPS)*, 2021.
- [20] V. Huynh, N. Ho, N. Dam, X. Nguyen, **M. Yurochkin**, H. Bui, and D. Phung. On efficient multilevel Clustering via Wasserstein distances. *Journal of Machine Learning Research (JMLR)*, 2021.
- [21] D. Mukherjee, A. Guha, J. Solomon, Y. Sun, and **M. Yurochkin**. Outlier-Robust Optimal Transport. In *International Conference on Machine Learning (ICML)*, 2021.
- [22] S. Maity, S. Xue, **M. Yurochkin**, and Y. Sun. Statistical inference for individual fairness. In *International Conference on Learning Representations (ICLR)*, 2021.
- [23] A. Bower, H. Eftekhari, M. Yurochkin, and Y. Sun. Individually Fair Rankings. In International Conference on Learning Representations (ICLR), 2021.
- [24] A. Vargo, F. Zhang, **M. Yurochkin**, and Y. Sun. Individually Fair Gradient Boosting. In *International Conference on Learning Representations (ICLR)*, 2021. **Spotlight**.
- [25] **M. Yurochkin** and Y. Sun. SenSel: Sensitive Set Invariance for Enforcing Individual Fairness. In *International Conference on Learning Representations (ICLR)*, 2021. **Oral**.
- [26] M. Weber, M. Yurochkin, S. Botros, and V. Markov. Black Loans Matter: Distributionally Robust Fairness for Fighting Subgroup Discrimination. NeurIPS Fair AI in Finance Workshop, 2020. Spotlight Talk.
- [27] L. Li, A. Genevay, **M. Yurochkin**, and J. Solomon. Continuous Regularized Wasserstein Barycenters. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2020.
- [28] S. Claici*, **M. Yurochkin***, S. Ghosh, and J. Solomon. Model Fusion with Kullback–Leibler Divergence. In *International Conference on Machine Learning (ICML)*, 2020.
- [29] D. Mukherjee*, M. Yurochkin*, M. Banerjee, and Y. Sun. Two Simple Ways to Learn Individual Fairness Metric from Data. In *International Conference on Machine Learning (ICML)*, 2020.
- [30] S. Xue, **M. Yurochkin**, and Y. Sun. Auditing ML models for individual bias and unfairness. In *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2020.
- [31] H. Wang, **M. Yurochkin**, Y. Sun, D. Papailiopoulos, and Y. Khazaeni. Federated Learning with Matched Averaging. In *International Conference on Learning Representations (ICLR)*, 2020. **Oral**.

- [32] **M. Yurochkin**, A. Bower, and Y. Sun. Training individually fair ML models with sensitive subspace robustness. In *International Conference on Learning Representations (ICLR)*, 2020. **Spotlight**.
- [33] M. Yurochkin, S. Claici, E. Chien, F. Mirzazadeh, and J. Solomon. Hierarchical Optimal Transport for Document Representation. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2019.
- [34] **M. Yurochkin**, M. Agarwal, S. Ghosh, K. Greenewald, and N. Hoang. Statistical Model Aggregation via Parameter Matching. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2019.
- [35] P. Monteiller, S. Claici, E. Chien, F. Mirzazadeh, J. Solomon, and **M. Yurochkin**. Alleviating Label Switching with Optimal Transport. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2019.
- [36] **M. Yurochkin**, Z. Fan, A. Guha, P. Koutris, and X. Nguyen. Scalable inference of topic evolution via models for latent geometric structures. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2019.
- [37] M. Yurochkin*, A. Guha*, Y. Sun, and X. Nguyen. Dirichlet Simplex Nest and Geometric Inference. In *International Conference on Machine Learning (ICML)*, 2019. Long Talk.
- [38] **M. Yurochkin**, M. Agarwal, S. Ghosh, K. Greenewald, N. Hoang, and Y. Khazaeni. Bayesian Nonparametric Federated Learning of Neural Networks. In *International Conference on Machine Learning (ICML)*, 2019.
- [39] **M. Yurochkin**, S. Upadhyay, D. Bouneffouf, M. Agarwal, and Y. Khazaeni. Online Semi-Supervised Learning with Bandit Feedback. *ICLR Limited Labeled Data (LLD) Workshop*, 2019.
- [40] **Mikhail Yurochkin**. Geometric Inference in Bayesian Hierarchical Models with Applications to Topic Modeling. PhD thesis, University of Michigan, 2018.
- [41] **M. Yurochkin**, A. Guha, and X. Nguyen. Conic Scan-and-Cover algorithms for nonparametric topic modeling. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2017.
- [42] **M. Yurochkin**, X. Nguyen, and N. Vasiloglou. Multi-way Interacting Regression via Factorization Machines. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2017.
- [43] N. Ho, X. Nguyen, **M. Yurochkin**, H. Bui, V. Huynh, and D. Phung. Multilevel Clustering via Wasserstein Means. In *International Conference on Machine Learning (ICML)*, 2017.
- [44] **M. Yurochkin** and X. Nguyen. Geometric Dirichlet Means algorithm for topic inference. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2016.

Patents

- K. Greenewald, L. Jung, J. Solomon, M. Yurochkin, and Y. Zeng. A method for outlier robust subgroup inference via clustering in the gradient space. Filed on April 29, 2023.
- M. Yurochkin, D. Mukherjee, M. Banerjee, Y. Sun, and S. Upadhyay. Learning Mahalanobis Distance Metrics from Data. Filed on June 11, 2021.
- S. Upadhyay, M. Yurochkin, D. Mukherjee, Y. Sun, A. Bower, H. Eftekhari, A. Vargo, and F. Zhang. Training Individually Fair Machine Learning Algorithms via Distributionally Robust Optimization. Filed on March 25, 2021.
- Y. Khazaeni, E. Daly, C. Muise, and M. Yurochkin. Artificial Intelligence for Learning Path Recommendations.
 Filed on December 31, 2020.
- o K. Greenewald, M. Yurochkin, M. Agarwal, S. Ghosh, N. Hoang and Y. Khazaeni. A method for combining pre-trained neural networks into a memory and computation efficient global model. Filed on September 20, 2019.
- S. Upadhyay, M. Yurochkin, M. Agarwal, D. Bouneffouf and Y. Khazaeni. Method for Online Partially Rewarded Learning. Filed on August 28, 2019.

Open-Source Software

- o inFairness, Python package for Individual Fairness: github.com/IBM/inFairness
- o Playground for comparing Group and Individual Fairness of toxic text detectors: temporarily behind VPN

Talks

o Al Fairness through Robustness @ AAAI Fairness of Machine Learning in Search Engines @ CIKM Al Fairness of MIT-IBM THINK Industry Day 2022 Invited Talks. Operationalizing Individual Fairness @ One World YoungStatS Webinar series Al Fairness & Language Models @ Northern Germany delegation visit to the MIT-IBM Lab Practical Individual Fairness TrustML Young Scientist Seminars Black Loans Matter: Fighting Bias for Al Fairness in Lending K NDD Workshop on Machine Learning in Finance (Keynote) Model fusion via single-round FL Enterprise-Strength Federated Learning, ICML Expo Practical Individual Fairness algorithms Toronto Machine Learning Summit ODSC West Foundations of Algorithmic Fairness (FAF) workshop Research Talks for Enel BIBM Research, Cambridge Lab All-hands Fusion of Heterogeneous Models in Federated Learning The 2nd Annual Federated & Distributed / Decentralized Machine Learning Conference Pederated Learning: Practice and Modern Algorithms ODSC Europe Invited panelist Erederated Learning, Al and Data Security Summit, HUB Security event Fairness in mortgage lending Tech for Racial and Social Justice, UW-Madison Data Science Bazaar ODSC Europe Individual Fairness with statistical gurantees, CMStatistics session Global Data Science Community meet-up, UniCredit event Fairness in Al What's Next in Al: Al we can trust, MIT-IBM conference Bayesian nonparametric fusion of heterogeneous models Bayesian nonparametric fusion of heterogeneous models Bayesian nonparametric fusion of heterogeneous models MIT Geometric Data Processing Group seminar Contributed Presentations.	Tutorials	
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Vividing an Stadent Symposium for interdisciplinary Statistical Sciences (boster)	Michigan Student Symposium for Interdisciplinary Statistical Sciences (poster)	2016

Awards

Awaius	
o Outstanding Technical Achievement Award	
for contributions to Federated Learning Security and Privacy (IBM internal)	2023
Outstanding (O-level) Accomplishment (IBM internal)	2022
o IBM Creator: Courageous Leader (IBM internal)	2022
Outstanding Technical Achievement Award (IBM internal) FB1 Croop Cord (outstanding professor or recognisher)	2021 2021
EB1 Green Card (outstanding professor or researcher)Research (A-level) Accomplishment (IBM internal)	2021
o Faces of IBM: Al Pioneer (IBM internal)	2020
Outstanding Demonstration - Honorable Mention award	NeurIPS 2020
Reviewer award	NeurIPS 2018, 2019
o Rackham Conference Travel Grant	2016, 2017
 Abramov scholarship (awarded to less than 5% students at MIPT) 	2010
Mentorship	
 Anthony Ou, MIT Master's of Engineering (MEng) student 	2023-Present
o Break Through Tech AI (BTAI) @ MIT, Project Advisor for two student teams	2023-Present
 Michael Feffer, IBM Research Tech for Justice summer PhD student intern 	2023
 Hao Bang (Kevin) Yang, MIT Master's of Engineering (MEng) student 	2022-2023
o Break Through Tech AI (BTAI) @ MIT, Project Advisor for a group of six students	2022
 Yuchen Zeng, MIT-IBM summer PhD student intern 	2022
o Subha Maity, IBM Research Tech for Justice summer PhD student intern	2022
o Lilian Ngweta, IBM Research summer PhD student extern	2022, 2023
o Todd Zhou, Research Science Institute (RSI) high school student	2022
o Luann Jung, MIT Master's of Engineering (MEng) student (with J. Solomon)	2021-2022
o Yining Chen, MIT-IBM summer PhD student intern	2021
 Haingoharijao Faniriniaina Ramandiamanana, African Master's in Machine Intelligence (AMMI) student (with J. Solomon and D. Palmer) 	2020
 Debarghya Mukherjee, MIT-IBM summer PhD student intern 	2020
o Hongyi Wang, IBM Research summer PhD student intern	2019
	2013
Professional Activities	
Organization and Service.	
 Practical Bayesian Methods for Big Data and Big Models workshop (co-organizer) MIT-IBM AI week 	2019
Optimal Transport seminar (with Y. Mroueh)	2019
© IBM Research AI seminar series	2019
Reviewer	
Neural Information Processing Systems (NeurIPS)	2016-2022
o Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	2022
o International Conference on Learning Representations (ICLR)	2018-2021
o International Conference on Machine Learning (ICML)	2017-2019
o Bayesian Analysis (BA)	2019
o Journal of Machine Learning Research (JMLR)	2019
 Journal of Computational and Graphical Statistics (JCGS) 	2016

Media coverage

o Interview for Expansion, one of the top media outlets in Mexico (in Spanish)	2023
o "AWANI Tonight: Creating a fairer AI", Malaysian news (1.75M subscribers)	2023
o "Debugging foundation models for bias", IBM Research	2022
o "New research helps make Al fairer in decision-making", IBM Research	2021
o "Finding a good read among billions of choices", MIT News	2019
o "Optimal Transport for Label Switching: Using Geometry to Solve Problems in AI", IBM Research	2019

Additional information

o Personal webpage: moonfolk.github.io

o LinkedIn: www.linkedin.com/in/mikhail-yurochkin-a45659114

o GitHub: github.com/moonfolk

o Google Scholar: scholar.google.com/citations?user=QjBF9sUAAAAJ