Michael M. Zhang
Curriculum Vitae

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Academic Positions

2018–*current* | **Post-doctoral Researcher**. Department of Computer Science, Princeton University.
Advisors: Barbara Engelhardt, Brandon Stewart.

Education

2018 | **Ph.D. Statistics**. The University of Texas at Austin.
Advisor: Sinead Williamson.

2016 | **M.S. Statistics**. The University of Texas at Austin.
Advisor: Sinead Williamson.

2013 | **B.S. Statistics** (Honors); **B.A. Political Science** (Honors and Distinction in Major); **Minor in Russian**. University of California, Santa Barbara.
Advisor: Cynthia Kaplan.

Publications and Pre-prints

Z. I. Phillips, **M. M. Zhang**, and L. Reding. The queen is a sanctuary for a colony intruder, either through camouflage or exploitation of social immune privilege. 2018. In review.

B. Saparbayeva, **M. M. Zhang**, and L. Lin. Communication efficient parallel algorithms for optimization on manifolds. 2018. To appear at NIPS 2018.

M. M. Zhang, H. Lam, and L. Lin. Robust and parallel Bayesian model selection. *Computational Statistics and Data Analysis*, 127:229 – 247, 2018.

F. Pérez-Cruz, P. M. Olmos, **M. M. Zhang**, and H. Huang. Probabilistic time of arrival localization for cellular networks. 2017. In review.

Z. I. Phillips, **M. M. Zhang**, and U. G. Müller. Dispersal of *Attaphila fungicola* (Blattodea: Ectobiidae), a symbiotic cockroach of leafcutter ants (Hymenoptera: Formicidae). *Insectes Sociaux*, 64(2):277–284, 2017.

M. M. Zhang, D. E. Schiavazzi, and L. Lin. Recombination of parallel Markov chains using local regression and Dirichlet process mixture models. 2017. Working paper.

M. M. Zhang and S. A. Williamson. Embarrassingly parallel inference for Gaussian processes. 2017. arXiv:1702.08420. In review. Appeared in "Advances in Approximate Bayesian Inference" as workshop paper.

M. M. Zhang, S. A. Williamson, and F. Pérez-Cruz. Accelerated inference for latent variable models. 2017. arXiv:1705.07178. In review.

M. M. Zhang, A. Dubey, and S. A. Williamson. Distributed inference in Bayesian nonparametric models. 2016. Working paper.

S. A. Williamson, **M. M. Zhang**, and P. Damien. A new class of time-dependent latent factor models with applications. 2016. In review.

M. M. Zhang, A. Dubey, and S. A. Williamson. Parallel Markov chain Monte Carlo for the Indian buffet process. 2015. "Bayesian Nonparametrics: The Next Generation" workshop paper.

Presentations and Posters

Apr. 2018	**Parallel MCMC Recombination for Big Data Analysis**. Invited talk at Department of Applied and Computational Mathematics and Statistics, Notre Dame University.
Oct. 2017, Jun. 2017	**Embarrassingly Parallel Inference for Gaussian Processes**. Presentation at Department of Statistics and Data Sciences Seminar Series, UT Austin; Contributed talk at 11th Conference on Bayesian Nonparametrics, ISBA.
Aug. 2016	**Robust and Parallel Bayesian Model Selection**. Poster at Boston University/Keio University Workshop in Probability and Statistics.
Dec. 2015	**Parallel Markov Chain Monte Carlo for the Indian Buffet Process**. Contributed talk and poster at "Bayesian Nonparametrics: The Next Generation" workshop at NIPS.

Professional Positions

2016	**Summer Research Intern**. Wireless Research for the Internet of Things, Nokia Bell Labs. *Supervisors: Fernando Pérez-Cruz, Howard Huang.*
2013–14	**Analyst**. Rule14 LLC.

Honors and Awards

2018	**Travel Award**. The 32nd Annual Conference on Neural Information Processing Systems.
2017	**Travel Award**. The 11th Conference on Bayesian Nonparametrics, ISBA.
2015, 2017	**Professional Development Award**. UT Austin Department of Statistics and Data Science.
2015	**Bonus Fellowship for Continuing Students**. The Graduate School at UT Austin.
2012	**Undergraduate Research and Creative Activities Grant**. UCSB College of Letters and Science.

Academic Service

2018	**Reviewer**, NIPS, UAI, ICML, AISTATS, Bayesian Non-Parametrics NIPS Workshop.
2017	**Reviewer**, NIPS.
2016	**Reviewer**, Bayesian Non-Parametrics NIPS Workshop.

Personal Information and Skills

Technical	Python, Matlab, R.
Citizenship	United States.