

Michael Minyi Zhang

Curriculum Vitae

Department of Computer Science
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Academic Positions

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| 2019–current | Research Associate. Eviction Lab, Department of Sociology, Princeton University.
<i>Advisor: Matthew Desmond.</i> |
| 2018–current | Postdoctoral Researcher. Department of Computer Science, Princeton University.
<i>Advisors: Barbara Engelhardt, Brandon Stewart.</i> |

Education

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| 2018 | Ph.D. Statistics. The University of Texas at Austin.
<i>Advisor: Sinead Williamson.</i> |
| 2016 | M.S. Statistics. The University of Texas at Austin.
<i>Advisor: Sinead Williamson.</i> |
| 2013 | B.S. Statistics (Honors); B.A. Political Science (Honors and Distinction in Major); Minor in Russian. University of California, Santa Barbara.
<i>Advisor: Cynthia Kaplan.</i> |

Publications and Pre-prints

- L.-F. Cheng, B. Dumitrascu, **M. M. Zhang**, C. Chivers, K. Li, and B. E. Engelhardt. Personalized effects of medication on patients using latent force models with Gaussian processes. 2019. arXiv:1906.00226. In review.
- L. Lin, B. Saparbayeva, **M. M. Zhang**, and D. B. Dunson. Accelerated algorithms for convex and non-convex optimization on manifolds. 2019. In review.
- M. M. Zhang**, B. Dumitrascu, S. A. Williamson, and B. E. Engelhardt. Sequential Gaussian processes for online learning of nonstationary functions. 2019. arxiv:1905.10003. In review.
- Z. I. Phillips, **M. M. Zhang**, and L. Reding. Social immune tolerance as a special protection of the queen. 2018. In review.
- B. Saparbayeva, **M. M. Zhang**, and L. Lin. Communication efficient parallel algorithms for optimization on manifolds. *Advances in Neural Information Processing Systems 31*, pages 3578–3588, 2018. Accepted as poster.
- 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. Appeared in “BNP@NeurIPS 2018” as workshop paper.

M. M. Zhang, A. Dubey, and S. A. Williamson. Distributed inference in Bayesian nonparametric models. 2016. Working paper. Master’s thesis at the University of Texas at Austin.

S. A. Williamson, **M. M. Zhang**, and P. Damien. A new class of time-dependent latent factor models with applications. 2016. arXiv:1904.08548. 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

	Embarrassingly Parallel Inference for Gaussian Processes.
Jan. 2020	Contributed talk at 2020 Bayes Comp, ISBA.
Jul. 2019	Contributed talk at 2019 Joint Statistical Meetings.
Oct. 2017	Invited talk at Department of Statistics and Data Sciences, University of Texas at Austin.
Jun. 2017	Contributed talk at 11th Conference on Bayesian Nonparametrics, ISBA.
	A New Class of Time-dependent Latent Factor Models with Applications.
Jun. 2019	Contributed talk at 12th Conference on Bayesian Nonparametrics, ISBA.
	Parallel MCMC Recombination for Big Data Analysis.
Apr. 2018	Invited talk at Department of Applied and Computational Mathematics and Statistics, Notre Dame University.
	Parallel Markov Chain Monte Carlo for the Indian Buffet Process.
Dec. 2015	Contributed talk and poster at “Bayesian Nonparametrics: The Next Generation” workshop at NeurIPS.

Professional Positions

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

Honors and Awards

2019	Travel Award. The 12th Conference on Bayesian Nonparametrics, ISBA.
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

2019	Reviewer, AISTATS, ICML, JMLR, NeurIPS.
2018	Reviewer, Bayesian Non-Parametrics NeurIPS Workshop, ICML, NeurIPS, UAI.
2017	Reviewer, NeurIPS.
2016	Reviewer, Bayesian Non-Parametrics NeurIPS Workshop.

Personal Information and Skills

Technical	Python, Matlab, R.
Citizenship	United States.