MINGZHANG YIN

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EDUCATION

The University of Texas at Austin, Ph.D. Candidate in Statistics

May 2020

· Supervisor: Dr. Mingyuan Zhou

Cumulative GPA: 3.99/4.00

· Reasearch Interest: Approximate Bayesian inference, Causal inference, Statistical learning theory, Information theory, Bayesian deep learning.

Fudan University, Bachelor of Science

June 2015

Mathematics and Applied Mathematics

Summa Cum Laude

PUBLICATIONS

(* represents equal contribution)

- Mingzhang Yin, YX Rachel Wang and Purnamrita Sarkar. "A Theoretical Case Study of Structured Variational Inference for Community Detection." International Conference on Artificial Intelligence and Statistics (AISTATS), 2020.
- Yuguang Yue, Yunhao Tang, Mingzhang Yin and Mingyuan Zhou. "Discrete Action On-Policy Learning with Action-Value Critic." International Conference on Artificial Intelligence and Statistics (AISTATS), 2020.
- Mingzhang Yin, George Tucker, Mingyuan Zhou, Sergey Levine and Chelsea Finn. "Meta-Learning without Memorization." International Conference on Learning Representations (ICLR), Top 5%, Spotlight, 2019.
- Mingzhang Yin*, Yuguang Yue* and Mingyuan Zhou. "ARSM: Augment-REINFORCE-Swap-Merge Estimator for Gradient Backpropagation Through Categorical Variables." International Conference on Machine Learning (ICML) 2019.
- Mingzhang Yin and Mingyuan Zhou. "Semi-implicit Variational Inference." International Conference on Machine Learning (ICML), Long Talk, 2018.
- Mingzhang Yin and Mingyuan Zhou. "ARM: Augment-REINFORCE-Merge Gradient for Stochastic Binary Networks." International Conference on Learning Representations (ICLR), Top 10%, 2018.
- Mingzhang Yin and Mingyuan Zhou. "Semi-Implicit Generative Model." Bayesian Deep Learning Workshop, NeurIPS 2018.
- Bowei Yan, Mingzhang Yin and Purnamrita Sarkar. "Convergence of Gradient EM for Multi-component Gaussian Mixture." Conference on Neural Information Processing Systems (NeurIPS) 2017.

PAPERS IN PREPARATION

- Mingzhang Yin, Mingyuan Zhou. "Best Subset Selection with Continuous Reformulation: Frequentist and Bayesian Strategies." In Preparation, 2019.
- Mingzhang Yin, Mingyuan Zhou. "Information Theoretic Semi-Implicit Inference and Learning" Plan to submit to JMLR, 2019.
- Siamak Zamani Dadaneh, Mingyuan Zhou, **Mingzhang Yin** and Xiaoning Qian. "Pairwise Supervised Hashing with Discrete Latent Bernoulli Variational Auto-Encoder and Self-Control Gradient Estimator." In **Preparation**, 2019.
- Yunhao Tang, **Mingzhang Yin** and Mingyuan Zhou. "Augment-Reinforce-Merge Policy Gradient for Binary Stochastic Policy." arXiv, 2019.

PRESENTATIONS

"Semi-implicit Variational Inference as Accurate Black-box Posterior Inference", *International Conference on Machine Learning*, Stockholm, July, 2018.

"Efficient Discrete Optimization with Correlated Samples", International Conference on Machine Learning, Long Beach, June, 2019.

"A Pitfall in the Generalization of Meta-Learning and how we fix it", *Statistical Seminar*, University of Texas at Austin, Austin, Texas, September, 2019

ACADEMIC SERVICE

Conference reviewing: NeurIPS 2017, 2018, 2019; ICML 2019, 2020; ICLR 2018, 2019; AISTATS 2018; UAI 2019; ACML 2018; AAAI 2018;

Journal reviewing: IEEE TPAMI; JMLR

Member: American Statistical Association (ASA) 2015-2019

TEACHING AND ADVISING EXPERIENCE

Teaching Assistant, Introduction to Probability and Statistics	Fall 2017, Fall 2019
Teaching Assistant, Bayesian Statistical Methods	Spring 2016, Spring 2017
Teaching Assistant, Design and Analysis of Experiments	Spring 2017
Teaching Assistant, Linear Algebra	Fall 2018
Undergraduate Mentorship, Directed Reading Program, UT Math Department	Fall 2018, Spring 2019
Organizing Causal Inference Reading Group, UT Statistics Department	Fall 2019

SELECTED AWARDS AND HONORS

The Graduate Continuing Bruton Fellowship	2018, 2019
Travel Award (NeurIPS, ICML, ICLR, MetaLearn Workshop)	2017- 2019
Outstanding Student Scholarship	2011-2015
Leo Tang Hsiang-chien Scholarship	April 2013
National 1 st Prize in China Mathematics Competition in Modeling	October 2013
1 st Prize in China Mathematical Olympiad	2011

INDUSTRIAL RESEARCH EXPERIENCE

Research Intern, Google Brain, Mountain View, CA	May 2019-August 2019
Research Intern, Quantlab Financial LLC, Houston, TX	June 2017-August 2017
Data Science Intern, HP Lab, Austin, TX	June 2016-August 2016
Research Intern China Academy of Science Computational Biology Shanghai	2014-2015

SKILLS

Language Native in Chinese; Fluent in English

Programming Fluent in Python, Matlab, R, LATEX, Tensorflow; Familiar with C, C++, Pytorch

REFERENCES

Mingyuan Zhou, Ph.D. Purnamrita Sarkar, Ph.D. Associate Professor of Statistics Assistant Professor of Statistics

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Chelsea Finn, Ph.D. Sergey Levine, Ph.D. Assistant Professor Assistant Professor

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