

MS/PhD Student · Manning College of Information and Computer Sciences

University of Massachusetts Amherst, 140 Governors Dr., Amherst, MA 01002 ☑ jinlinlai@cs.umass.edu | 🔏 lll6924.github.io | 🛅 https://www.linkedin.com/in/jinlin-lai/

University of Massachusetts Amherst

Amherst, MA, United States August 2020 - present

MS/PhD in Computer Science

- Advisor: Dr. Daniel R. Sheldon
- GPA: 3.97/4.0
- · Courses (PhD level): Machine Learning, Optimization in Computer Science, Probabilistic Graphical Models, Advanced Algorithms, Compiler Techniques, Real Analysis I, Advanced Natural Language Processing

Tsinghua University Beijing, China August 2016 - June 2020

B.Eng. of Computer Science and Technology

- Minors in Finance and Entrepreneurship
- Undergrad research advisors: Dr. Dan Pei, Dr. Jiaxing Song • GPA: 3.67/4.0
- Selected Courses: Experiments in Mathematics, Fundamentals of Search Engine Technology, Game Theory, Introduction to Principles of Communications, Stochastic Mathematical Methods, Theory and Methods for Statistical Inference

Work Experience _____

Dolby Laboratories Inc.

Sunnyvale, CA

ATG IMAGING RESEARCH INTERN

June 2023 - August 2023

Publications _____

CONFERENCE

Jinlin Lai, Javier Burroni, Hui Guan, Daniel Sheldon. (2023). Automatically Marginalized MCMC in Probabilistic Programming. In Proceedings of the 40th International Conference on Machine Learning (ICML), Honolulu, Hawaii, USA. PMLR 202, 2023. [link]

Jinlin Lai, Justin Domke, Daniel Sheldon. (2022). Variational Marginal Particle Filters. In Proceedings of the 25th International Conference on Artificial Intelligence and Statistics (AISTATS) 2022, Valencia, Spain. PMLR: Volume 151. [link]

Haowen Xu, Wenxiao Chen, Jinlin Lai, Zhihan Li, Youjian Zhao, Dan Pei. 2020. Shallow VAEs with RealNVP Prior can Perform as Well as Deep Hierarchical VAEs. ICONIP.

Workshop

Jinlin Lai, Daniel Sheldon. 2022. Automatic Inference with Pseudo-Marginal Hamiltonian Monte Carlo. ICML workshop Beyond Bayes: Paths Towards Universal Reasoning Systems.

Jinlin Lai, Lixin Zou, Jiaxing Song. 2020. Optimal Mixture Weights for Off-Policy Evaluation with Multiple Behavior Policies. Offline Reinforcement Learning Workshop at Neural Information Processing Systems.

Services
Served as a reviewer for ICML 2022, AISTATS 2023, AABI 2023.
Talks

Jinlin Lai. 2023. Automatically Marginalized MCMC in Probabilistic Programming. Contributed talk in the 5th Symposium on Advances in Approximate Bayesian Inference.

Skills_ Programming: Python, C/C++, LaTeX, Tensorflow, Tensorflow-Probability, JAX, NumPyro, PyTorch Language: Chinese (Native), English (Professional), Japanese (Elementary) Honors, & Awards Academic Excellence Scholarship, Tsinghua University 2017 CNY 5,000 2016 Second Prize, Freshman Scholarship, Tsinghua University CNY 20,000 Gold Medal, National Olympiad in Informatics, China 2015 Gold Medal, Asia and Pacific Informatics Olympiad, China Teaching Experience ___ Probabilistic Graphical Models, Teaching Assistant Spring 2023 University of Massachusetts Amherst Probabilistic Graphical Models, Teaching Assistant University of Massachusetts Amherst Spring 2022 Summer 2019 Algorithms for High School Olympics, Lecturer Nanchang, Jiangxi Province Summer 2018 Algorithms for High School Olympics, Lecturer Ganzhou, Jiangxi Province Summer 2017 Algorithms for High School Olympics, Lecturer Ganzhou, Jiangxi Province 2015-2016 Algorithms for High School Olympics, Teaching Assistant Ganzhou, Jiangxi Province