325, Gates Hall, Cornell University
Ithaca, 14850, NY
(607)262-1821
rz297@cornell.edu
ruqizhang.github.io

Ruqi Zhang

Education

2016–Now **PhD, Statistics; Special MS, Computer Science**, *Cornell University, Ithaca, NY*.
Advisor: Christopher De Sa, Committee Members: Thorsten Joachims, Giles Hooker
GPA: 3.97/4.00

2012–2016 **BS, Mathematics and Applied Mathematics**, *Renmin University of China, Beijing, China*.

2015 **Exchange Student, Mathematics and Computer Science**, *University of Helsinki, Helsinki, Finland*.

Research Interests

My research interests include Bayesian machine learning, stochastic algorithms, deep learning, generative models and meta-learning. Recently, I'm working on scalable Bayesian inference with theoretical guarantees and Bayesian deep learning.

Publications

[1] **Asymptotically Optimal Exact Minibatch Metropolis-Hastings**.
NeurIPS, 2020, **Spotlight, acceptance rate 2.96%**
Ruqi Zhang, A. Feder Cooper, Christopher De Sa

[2] **AMAGOLD: Amortized Metropolis Adjustment for Efficient Stochastic Gradient MCMC**.
AISTATS, 2020
Ruqi Zhang, A. Feder Cooper, Christopher De Sa

[3] **Cyclical Stochastic Gradient MCMC for Bayesian Deep Learning**.
ICLR, 2020, **Oral, acceptance rate 1.85%**
Ruqi Zhang, Chunyuan Li, Jianyi Zhang, Changyou Chen, Andrew Gordon Wilson

[4] **Poisson-Minibatching for Gibbs Sampling with Convergence Rate Guarantees**.
NeurIPS, 2019, **Spotlight, acceptance rate 2.43%**
Ruqi Zhang, Christopher De Sa

[5] **Meta-Learning for Variational Inference**.
Symposium on Advances in Approximate Bayesian Inference (AABI), 2019
Ruqi Zhang, Yingzhen Li, Christopher De Sa, Sam Devlin, Cheng Zhang

[6] **Large Scale Sparse Clustering**.
IJCAI, 2016
Ruqi Zhang, Zhiwu Lu

Work Experience

6/2020-8/2020 **Research Intern**, *Microsoft Research New England*.
Mentors: Nicolo Fusi, Rishit Sheth
Project: Hyperparameter Schedules Optimization. One paper in progress.

6/2019-8/2019 **Research Intern**, *Microsoft Research Cambridge, UK*.
Mentors: Cheng Zhang, Yingzhen Li, Sam Devlin
Project: Meta-learning and reinforcement learning for variational inference. One paper in AABI and one paper in progress.

Talks

4/2020 **Cyclical Stochastic Gradient MCMC for Bayesian Deep Learning**.
Oral presentation at ICLR

12/2019 **Poisson-Minibatching for Gibbs Sampling with Convergence Rate Guarantees**.
Spotlight presentation at NeurIPS

Teaching

Cornell Teaching Assistant, ILRST 5050, Statistics at Work, Fall 2018

Teaching Assistant, STSCI 2110, Introductory Statistics, Spring 2018

Teaching Assistant, MATH 3110, Introduction to Analysis, Spring 2017

Teaching Assistant, STSCI 3110, Probability Models and Inference for the Social Sciences, Fall 2016, Fall 2017, Fall 2020

Service

Reviewer NeurIPS 2018, 2019, 2020; ICML 2019, 2020; ICLR 2019, 2020, 2021; AISTATS 2020, 2021; AAAI 2020; UAI 2019

Awards

2020 NeurIPS Top 10% Reviewers Reward

2019 NeurIPS Travel Grant

2013-2015 Academic Outstanding Scholarship, Renmin University of China

2015 Exchange Students Scholarship, University of Helsinki

Technical Skills

Programming Languages Python, C/C++, Matlab, R

Deep Learning Pytorch, Tensorflow

Languages

Chinese Native

English Fluent