

Education

Harvard University

Cambridge, MA

PH.D. IN STATISTICS & M.A. IN STATISTICS, GPA 4.0/4

Sep 2019 - Jan 2024 (Expected)

- Advised by Prof. Subhabrata Sen;
- I am interested in applied probability and high-dimensional statistics in general. Recently, I have been working on High-dimensional Bayesian Variational Inference and Adaptive Experimental Design.

Peking University

Beijing, China

B.S. IN MATHEMATICS AND APPLIED MATHEMATICS, GPA 3.8/4, OUTSTANDING GRADUATE

2015 - 2019

- With concentration in *Probability & Statistics*, also received systematic training in *Computational Mathematics & Numerical Methods*.

B.A. IN PHILOSOPHY (DOUBLE MAJOR)

2017 - 2020

Employments

Five Rings LLC

New York, NY

QUANTITATIVE RESEARCH INTERN

June 2022 - Aug 2022

Publications and Manuscripts

*Author order is determined alphabetically.

Qiu, J. and Sen, S. (2023). The TAP Free Energy for High-Dimensional Linear Regression, *Annals of Applied Probability*.

Ham, D.* and Qiu, J.*. (2022). Hypothesis Testing in Sequentially Sampled Data: ART to Maximize Power Beyond iid Sampling, *TEST*.

Qiu, J.. (2023+). Sub-optimality of the Naive Mean Field approximation for proportional high-dimensional Linear Regression, *NeurIPS 2023*.

Qiu, J., Sen, S., and Mukherjee, S. (2023+). Naive Mean Field approximation for high-dimensional Bayesian Generalized Linear Models and Bayesian Neural Network, *in preparation*.

Consulting and Teaching Experience

Consultant & Teaching Fellow, Statistical Consulting Group

Cambridge MA

DEPARTMENT OF STATISTICS, HARVARD UNIVERSITY

Jan 2020 - Dec 2021

- Offered advice to more than 50 clients in all forms of data analysis and interpretation of results, including but not limited to: Experimental Design, Classification and Prediction (Machine Learning), Statistical Issues Arising from “Big Data”, Model Fitting, and Data Visualization.
- Assisted Prof. Lucas Janson with administrative duties, in charge of the outreach mission of our consulting group.

Teaching Fellow

Cambridge MA

HARVARD UNIVERSITY

Sept 2020 - May 2023

- Statistical Inference I & II (PhD-level), Statistical Consulting (PhD), Topics in High-dimensional Statistics: Methods from Statistical Physics (PhD), Bayesian Inference (Undergraduate), and Introduction to Stochastic Processes (Undergraduate); Awarded Distinction in Teaching for multiple times.

Selected Honors & Awards

2021-22 **Distinction in Teaching**, Harvard University

Cambridge, MA

2019 **Outstanding Graduate**, Peking University

Beijing, China

2018 **Scholarship for Excellent Students in Applied Mathematics**, Peking University

Beijing, China

2017-18 **Fangzheng Scholarship, Samsung Scholarship**, Peking University

Beijing, China

2017 **First Prize**, Jiang-Zehan Mathematical Modeling Contest (1/32)

Beijing, China

2014 **First Prize**, Chinese Mathematical Olympiad

Chongqing, China

Skills & Interests

Languages: Mandarin (Native), English (Fluent), Spanish (Beginner)

Programming Skills: Python, Matlab, R, C, \LaTeX .

Interests: Mahjong, Bridge, Poker, Badminton