Lijia Zhou

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Address: 5747 South Ellis Avenue – Chicago, IL 60637

Education

University of Chicago

Ph.D. student in Statistics, Advisor: Prof. Nathan Srebro **2018 – Expected 2023**

B.S. in Applied Mathematics

B.S. in Statistics **2015 – 2018**

Publications

Optimistic Rates: a Unifying Theory for Interpolation Learning and Regularization in Linear Regression with Frederic Koehler, Danica J. Sutherland and Nathan Srebro

- Preprint. Available on ArXiv.

Uniform Convergence of Interpolators: Gaussian Width, Norm Bounds and Benign Overfitting with Frederic Koehler, Danica J. Sutherland and Nathan Srebro

- published at *Conference on Neural Information Processing Systems (NeurIPS) 2021*
- Oral (less than 1% of 9122 submissions)

On Uniform Convergence and Low-Norm Interpolation Learning with Danica J. Sutherland and Nathan Srebro

- published at *Conference on Neural Information Processing Systems (NeurIPS) 2020*
- Spotlight (top 2.9% of 9454 submissions)

Statistical Consulting

Participated in statistical consulting program that offers advice on data analysis to researchers from other departments within the university:

- *Higher-order-thinking talk (HOTT) in parent-child interaction*, Fall 2019
- *Medication discrepancies and blood pressure control in Botswana hypertension clinics*, Winter 2019

Selected Coursework

Machine learning:

- Natural Language Processing, Deep Generative Models, Statistical and Computational Learning Theory, Spectral Methods and Non-convex Optimization

Statistical inference:

- Generalized Linear Model, Time Series Analysis, High Dimensional Statistics, Robust and Semiparameteric Statistics, Nonparameteric Statistics, Multiple testing and Modern Inference, Causal Inference, Measure Theoretical Probability, Topic in Random Matrix theory

Teaching Assistant

- *Convex Optimization* (Winter 2020, Winter 2022)
- *Statistical Theory and Methods* (Autumn 2020, Autumn 2019, Winter 2019 & Autumn 2021)
- *Introduction to Random Matrices* (Winter 2021)
- *Optimization* (Spring 2019)

Programming

- Python (PyTorch, scikit-learn), R, MATLAB, SQL, LaTeX