BOBBY SHI

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EDUCATION

UNIVERSITY OF TEXAS AT AUSTIN *Expected May 2025*
Ph.D., Electrical and Computer Engineering GPA: 3.95
Rachel Ward

UNIVERSITY OF CHICAGO *June 2020*
M.S., Computer Science

UNIVERSITY OF CHICAGO *June 2020*
B.S., Mathematics Overall GPA: 3.754
Matthew Walter Major GPA: 3.840

PUBLICATIONS

Conference papers

1. Yuege Xie, Bobby Shi, Hayden Schaeffer, and Rachel Ward. Shrimp: Sparser random feature models via iterative magnitude pruning. In *Proceedings of the 3rd Mathematical and Scientific Machine Learning Conference.*

Journal papers

1. Abolfazl Hashemi, Hayden Schaeffer, Robert Shi, Ufuk Topcu, Giang Tran, and Rachel Ward. Generalization bounds for sparse random feature expansions. *Applied and Computational Harmonic Analysis*, 2022.

TEACHING EXPERIENCE

Foundations of Machine Learning - *University of Texas at Austin, Teaching Assistant*
Linear Algebra - *University of Chicago, Teaching Assistant*
Abstract Linear Algebra - *University of Chicago, Teaching Assistant*

HONORS AND AWARDS

Engineering Fellowship - *University of Texas at Austin* *2020*
Liew Family Research Grant Recipient - *University of Chicago* *2019*
President's Scholar - *University of Chicago* *2016*

GRADUATE COURSEWORK

Advanced Probability

Approximation Algorithms and Complexity

Geometric Methods in Data Science

Foundational Techniques of Machine Learning and Data Sciences

Automated Logical Reasoning

Convex Optimization

Probability and Stochastic Processes

Combinatorial Optimization

Introduction to the Theory of Machine Learning - *TTIC*

Spectral Methods for Machine Learning and Network Analysis - *University of Chicago*

Inverse Problems and Data Assimilation - *University of Chicago*