

EDUCATION

University of Washington

September 2024 - Present

Ph.D. in Computer Science

Advisor: Prof. Huijia Lin

University of Southern California

August 2019 - May 2024

M.S. in Computer Science - Progressive Degree Program

GPA: 3.88

B.S. in Computer Science - Summa Cum Laude

GPA: 3.91

EXPERIENCE

USC Computer Science Theory Group

August 2022 - September 2024

Research Assistant

Los Angeles, CA

- Theoretical machine learning research with Professor Vatsal Sharan
- Explored connections between subgroup robustness and multicalibration
- Analyzed implicit biases of stable learning algorithms
- Designed and evaluated algorithm for improving OOD-generalization, subgroup robustness, and fairness without access to group labels

Signal Foundation

May 2023 - September 2023

Research Intern

Remote

- Cryptography research for private messaging application with principal researcher Rolfe Schmidt
- Performed cost analysis of scaling contact discovery to use private information retrieval (PIR) over hardware enclaves
- Implemented state-of-the-art PIR system in C++ and Golang and conducted experiments on real-world data

Tesla, Inc.

May 2022 - August 2022

Sensor Fusion and Tracking Intern

Palo Alto, CA

- Raw sensor data analysis for autopilot pipeline
- Implemented Python reverse-geocoder using OpenStreetMap and PostGIS to detect sensor blocking objects based on car GPS data
- Planned and executed a long-term PostgreSQL database for sensor data on AWS cloud, with Python API and Grafana dashboard interfaces

USC Michelson Center Convergent Science Institute in Cancer

July 2021 - May 2022

Research Assistant

Los Angeles, CA

- Quantitative biology research with Professor Peter Kuhn and Professor Jeremy Mason
- Aggregated and assessed physical activity data from over 60 patients in clinical trials to help physicians predict whether those patients will experience unplanned healthcare encounters
- Used feature selection to identify important attributes for this classification

USC Information Laboratory

July 2020 - March 2021

Research Assistant

Los Angeles, CA

- Spatiotemporal research with Professor Cyrus Shahabi
- Built a co-location-based disease spread simulator using real world mobility data
- Predicted risk of COVID-19 infection at specific locations with 50% improvement in accuracy over existing methods

PUBLICATIONS

Mitigating Simplicity Bias in Deep Learning for Improved OOD Generalization and Robustness

Bhavya Vasudeva, [Kameron Shahabi](#), Vatsal Sharan

ICML Workshop on Spurious Correlations, Invariance, and Stability 2023

Towards Accurate Spatiotemporal COVID-19 Risk Scores Using High Resolution Real-World Mobility Data

Sirisha Rambhatla, Sepanta Zeighami, [Kameron Shahabi](#), Cyrus Shahabi, Yan Liu

ACM Transactions on Spatial Algorithms and Systems 2022

TECHNICAL REPORTS

Estimated Cost of Scaling Contact Discovery using Private Set Intersection

Kameron Shahabi, Rolfe Schmidt

Whitepaper with Signal Foundation, 2023

RELEVANT COURSEWORK

Graduate Convex and Combinatorial Optimization, Machine Learning, Advanced Analysis of Algorithms, Theory of Machine Learning

Undergraduate Algorithms, Artificial Intelligence, Cryptography, Discrete Mathematics, Operating Systems, Computer Graphics, Linear Algebra, Probability Theory

TECHNICAL SKILLS

Machine Learning PyTorch, Tensorflow, Keras, Matplotlib, Sklearn, Pandas

Programming Python, Java, C++, Golang, JavaScript

Software Git, Linux, PostgreSQL, MongoDB, Node.JS, React

TEACHING

Course Producer (USC) Introduction to Algorithms and the Theory of Computing *Fall 2021, Spring 2022*

AWARDS

NRT:AQET Fellowship Quantum Certificate Fellowship

Fall 2025 - Summer 2026

USC Provost Research Fellowship Academic Research Support

Fall 2021, Spring 2022

USC Viterbi Dean's List Engineering Honors

8/8 Semesters