Sifan Tao

Curriculum Vitae

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1 https://www.sifantao.com

Education

2023 - PhD Student in Statistics, University of Wisconsin-Madison.

Present

2019 – 2023 **BS in Statistics, with a second major in mathematics**, *University of Virginia*. with distinction, Phi Beta Kappa

Fall 2020 UVA at Fudan: Go Local, School of Data Science, Fudan University.

Presentations

Conference Poster Presentations

May 2025 Uncertainty Quantification and Machine Learning for Complex Physical Systems, Variance Reduction under Grouped Variables in Sobol Models, Institute for Mathematical and Statistical Innovation, Advised by Peter Chien.

Invited Talks

- November Ohio State Sports Analytics Association Conference 2021, Modeling Stochastic Soccer
 2021 Game Dynamics using Potential Functions, Ohio State University, Joint work with Nicholas Ho,
 Adhvaith Vijay.
- October 2021 **Carnegie Mellon Sports Analytics Conference 2021**, An Interpretable Method of Learning Stochastic Game Dynamics, Carnegie Mellon University, Joint work with Nicholas Ho, Adhvaith Vijay.

Invited Guest Lectures

October 2022 **STAT4800 Advanced Sport Analytics**, *Modeling Stochastic Soccer Game Dynamics using Potential Functions*, University of Virginia, Invited by Professor Jordan Rodu. Undergraduate course on sport analytics.

Student Research Experience

- Fall 2024 **Graduate Research Assistant**, Leverage-based Orthogonalizing EM Method, Variance Reduction Present for Grouped Variables, Group-based Bayesian Optimization, Advised by Peter Chien. University of Wisconsin-Madison
- Fall 2021 **Undergraduate Research Assistant**, *Core-Periphery Trading Networks*, Advised by Chaojun Fall 2022 Wang.

The Wharton School, University of Pennsylvania

- Fall 2021 **Undergraduate Research Course**, Bayesian Propensity Scores, Sentiment analysis of Covid-19 Spring 2022 tweet, Advised by Xin Tong.
 University of Virginia
 - Fall 2021 **Undergraduate Independent Study Course**, *Causal Inference*, Advised by Jordan Rodu. University of Virginia
- Summer 2021 **Summer Undergraduate Research Experience**, *Modeling Stochastic Soccer game Dynamics using Potential functions*, Advised by Konstantinos Pelechrinis.

 Carnegie Mellon Sports Analytics Camp 2021

March 2021 - Undergraduate Research Assistant, Why Trade Over-the-counter? When Investors Want Price

April 2021 Discrimination, Advised by Chaojun Wang.

The Wharton School, University of Pennsylvania

Service

Professional Service

Reviewer Journal of Statistical Planning and Inference

Teaching

Courses Served as Teaching Assistant at University of Wisconsin-Madison

Spring 2025, STAT340 Data Science Modeling II.

Fall 2025

Fall 2024 STAT240 Data Science Modeling I.

Spring 2024 STAT371 Introductory Applied Statistics for the Life Science.

Fall 2023 STAT324 Introductory Applied Statistics for Engineers.

Courses Served as Teaching Assistant at University of Virginia

Fall 2021, STAT3080 From Data to Knowledge.

Fall 2022

Computer Skills

Proficient R

Intermediate Python

Beginner Shell, Java, SAS

Language

Bilingual Chinese, English

Beginner Japanese