Haoming Shi

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Personal Webpage

Education

Rice University	**Houston, TX**
Ph.D. Statistics GPA: 4.0/4.0	Aug 2022 - Present

Advisor: Eric C. Chi and Hengrui Luo

University of California – Santa Barbara	**Santa Barbara, CA**
B.S. Financial Math and Statistics GPA: 4.0/4.0	Sep 2018 – June 2022

Dean's Honor Student every quarter.

Research Experience

Lawrence Berkeley National Laboratory	**Berkeley, CA**
Applied Mathematics & Computational Research Division	May 2025 – Aug 2025

Graduate Research Intern
Supervisor: Xiaoye S. Li
Projects:
Cheap Surrogate Model with Gaussian Process
- Cheap Gaussian Process surrogate model for efficient cosmology parameter inference.

Rice University	**Houston, TX**
Department of Statistics	Sep 2023 - Present

Graduate Research Assistant
Current Research Projects
- Robust Estimation of Spatiotemporal Models.
- Asymptotic optimism under tensor regression.

University of Texas MD Anderson Cancer Center	**Houston, TX**
Department of Bioinformatics and Computational Biology	Aug 2022 – Aug 2023

Graduate Research Intern
Supervisor: Wenyi Wang
Projects:
- Survival-based Clustering of Predictors (SCP) framework.
- Bio-imaging analysis on Spatial Tumor Distribution.

Stanford Medicine	**Stanford, CA**
Center for Asian Health Research and Education	June 2021 – June 2022

Undergraduate Research Assistant
Supervisor: Linda Geng and Fumiaki Ikeno
Projects:
- Leading Causes of Death for Japanese Americans.
- Misdiagnosis of Rare Diseases among Asian Americans.

Teaching Experience

Rice University	**Houston, TX**

Teaching Assistant
- STAT 607 (Statistical Computing)   Fall 2024
- STAT 413 (Intro to Statistics Machine Learning)   Fall 2023
- STAT 310 (Probability and Statistics)   Spring 2023
- STAT 310 (Probability and Statistics)   Fall 2022

Student Instructor
- Lecturing for STAT 607   Fall 2024
- PhD Qualify Exam (Statistics and Inference Session)   Summer 2024

Presentation and Talks

Publications and Preprints
1. **H. Shi**, S. Yu, E.C. Chi. (2025) Robust Spatiotemporal Epidemic Modeling with Integrated Adaptive Outlier Detection. Submitted. arXiv:2507.09380.

Selected Talks
1. A Robust Estimation Framework for Spatiotemporal Epidemic Models. *Joint Statistical Meetings. Aug 2024.*

Poster Presentations
2. A Robust Estimation Framework for Spatiotemporal Epidemic Models. *Institute for Research in Statistics and its Applications. May 2024.*
3. A Robust Estimation Framework for Spatiotemporal Epidemic Models. *43rd Annual Conference of Texas Statisticians. May 2024.*
4. Annotating TP53 Germline Mutations from Patient Time-to-Cancer Diagnosis via Homogeneity Pursuit in Cox Regression. *2023 Leading Edge of Cancer Research Symposium. Nov. 2023.*
5. Leading Causes of Death for Japanese Americans. *2022 Consortium of Universities for Global Health. March 2022.*

Honors and Awards

STAT PhD Student Travel Award. Rice University.	Aug 2024, Aug 2025
IMS FSML 2025 Travel Award. The Institute of Mathematical Statistics (IMS).	Aug 2025
Highest Honors at Graduate. University of California – Santa Barbara.	June 2022

Professional Memberships

Society for Industrial and Applied Mathematics (SIAM).	2025 - Present
American Statistical Association (ASA).	2023 - Present

Volunteer Service

Volunteer, Perspective PhD Student Visit, Rice University	2023 - Present

     - Help organize and meet with perspective students during onsite visits.

Presenter, PhD Student Seminar, Rice University	Sep 2023

     - Volunteer presenter at our PhD student seminar.