Tim White

☑ twhit@umich.edu in timwhite18 및 timwhite0.github.io ♀ timwhite0 ➤ Tim White

Education

Ph.D. in Statistics
University of Michigan
Advisor: Jeffrey Regier

2022 - Present
Ann Arbor, MI
GPA: 3.94

M.A. in Statistics
University of Michigan

2022 - 2024
Ann Arbor, MI

B.S. in Statistical Science, summa cum laude
University of Minnesota

2018 - 2022

Minnesota

Secondary Major in Economics (Quantitative Emphasis), Minor in Mathematics GPA: 4.00

Research interests

• Sequential Monte Carlo • Variational inference • Diffusion models

Markov chain Monte Carlo
 Applications in astrophysics
 Data mining and visualization

Publications

JOURNAL PAPERS

Tim White and Sara Algeri (2023). Estimating the lifetime risk of a false positive screening test result. *PLoS ONE*, 18(2), e0281153. Amanuscript Code

Conference papers

Tim White and Jeffrey Regier (2023). Sequential Monte Carlo for detecting and deblending objects in astronomical images. NeurIPS Workshop on Machine Learning and the Physical Sciences. 🔁 Manuscript • Code

Presentations

Neural posterior estimation for inferring weak lensing shear and convergence from pixels

Joint Statistical Meetings. Nashville, TN.

August 2025
Michigan Student Symposium for Interdisciplinary Statistical Sciences. Ann Arbor, MI.

March 2025

Pixels to Objects Working Group, Dark Energy Science Collaboration. Virtual.

January 2025

Sequential Monte Carlo samplers for probabilistic object detection in images

Joint Statistical Meetings. Portland, OR. August 2024

Michigan Student Symposium for Interdisciplinary Statistical Sciences. Ann Arbor, MI. March 2024

NeurIPS Workshop on Machine Learning and the Physical Sciences. New Orleans, LA.

December 2023

Estimating the lifetime risk of a false positive screening test result

Joint Statistical Meetings. Washington, DC. August 2022

Software

Teaching and mentorship

Graduate Student Instructor August 2022 - Present Department of Statistics, University of Michigan Ann Arbor, MI Fall 2024, Winter 2025 DATASCI 451: Bayesian Data Analysis Advanced course for approximately 80 undergraduate statistics majors. Winter 2024 DATASCI 415: Data Mining and Statistical Learning Advanced course for approximately 80 undergraduate statistics majors. Fall 2023 STATS 401: Applied Statistical Methods II Core course for approximately 120 undergraduate statistics minors. Winter 2023 DATASCI 306: Introduction to Statistical Computing Introductory course for approximately 160 undergraduate statistics majors and minors. Fall 2022 STATS 250: Introduction to Statistics and Data Analysis Introductory course for approximately 800 undergraduates of all majors. **Graduate Tutor** January 2024 - Present Department of Statistics, University of Michigan Ann Arbor, MI January 2024 - May 2024 **Graduate Mentor** Undergraduate Research Program in Statistics, University of Michigan Ann Arbor, MI Service Civic Engagement and Service Committee Member February 2024 - Present Statistics Ph.D. Council, University of Michigan Ann Arbor, MI Datathon Judge March 2024, March 2025 Hosted by Michigan Undergraduate Students of Statistics, University of Michigan Ann Arbor, MI Data Analyst September 2019 - May 2022 College of Liberal Arts Student Board, University of Minnesota Minneapolis, MN Work experience Undergraduate Research Assistant, IPUMS International January 2019 - May 2022 Minnesota Population Center Minneapolis, MN September 2021 - March 2022 Intern, Population and Development Branch United Nations Population Fund New York, NY (remote) Honors and awards Outstanding Craduate Student Instructor Award A mmil 2025

Department of Statistics Visit Day, University of Michigan

Department of Statistics, University of Michigan	April 2025
Best Oral Presentation, Methods/Theory Michigan Student Symposium for Interdisciplinary Statistical Sciences	March 2025
Best Oral Presentation, Applications Michigan Student Symposium for Interdisciplinary Statistical Sciences	March 2024
Emerging Researcher Award	March 2024

${\bf Buehler\ Memorial\ Undergraduate\ Award}$

School of Statistics, University of Minnesota

Honorable Mention, ASA Student Paper Competition

American Statistical Association, Section on Medical Devices and Diagnostics

 $\mathrm{May}\ 2022$

January 2022