




# Tim White

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## Education



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<b>Ph.D. in Statistics</b>	<b>2022 - Present</b>
University of Michigan	Ann Arbor, MI
Advisor: Jeffrey Regier	GPA: 3.91
<b>M.A. in Statistics</b>	<b>2022 - 2024</b>
University of Michigan	Ann Arbor, MI
<b>B.S. in Statistical Science, <i>summa cum laude</i></b>	<b>2018 - 2022</b>
University of Minnesota	Minneapolis, MN
Secondary Major in Economics (Quantitative Emphasis), Minor in Mathematics	GPA: 4.00



## Publications

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### JOURNAL PAPERS

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

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### ORAL

- March 2024**      [Sequential Monte Carlo for detecting and deblending objects in astronomical images.](#)  
Michigan Student Symposium for Interdisciplinary Statistical Sciences. Ann Arbor, MI.
- August 2022**      [Estimating the lifetime risk of a false positive screening test result.](#) Joint Statistical Meetings.  
Washington, DC.

### POSTER

- December 2023**      [Sequential Monte Carlo for detecting and deblending objects in astronomical images.](#) NeurIPS  
Workshop on Machine Learning and the Physical Sciences. New Orleans, LA.

## Other projects

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**Tim White** (2024). [Sequential Monte Carlo for probabilistic cell detection in microscopy images.](#) BIOSSTAT 882 final project, University of Michigan.

Jaylin Lowe and **Tim White** (2024). [Waste-free sequential Monte Carlo for light source detection in astronomical images.](#) STATS 608 final project, University of Michigan.

Jaylin Lowe, Gabriel Patron, and **Tim White** (2023). [Forecasting the weather with deep learning.](#) STATS 604 project #4, University of Michigan.

Xuanyu Chen, Gabriel Patron, and **Tim White** (2023). [Did machine learning reveal symbolism, emotionality, and imaginativeness as primary predictors of creativity?](#) STATS 604 project #3, University of Michigan.

**Tim White** (2023). [Analyzing mortality and its determinants among individuals with type 1 and type 2 diabetes.](#) STATS 601 final project, University of Michigan.

## Software

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**Tim White** (2025+). Sequential Monte Carlo for object detection. [https://github.com/timwhite0/smc\\_object\\_detection](https://github.com/timwhite0/smc_object_detection)

**Tim White** (2022). MLBdash. <https://twhit.shinyapps.io/MLBdash>

**Tim White** (2021). The False Positives Calculator. <https://falsepositives.shinyapps.io/calculator>

## Work experience

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**Undergraduate Research Assistant, IPUMS International** **January 2019 - May 2022**  
*Minnesota Population Center* Minneapolis, MN

**Intern, Population and Development Branch** **September 2021 - March 2022**  
*United Nations Population Fund* New York, NY (remote)

## Teaching experience

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**Department of Statistics, University of Michigan** **August 2022 - Present**  
*Graduate Student Instructor* Ann Arbor, MI

<b>Fall 2024, Winter 2025</b>	DATASCI 451: Bayesian Data Analysis
<b>Winter 2024</b>	STATS 415: Data Mining and Statistical Learning
<b>Fall 2023</b>	STATS 401: Applied Statistical Methods II
<b>Winter 2023</b>	STATS 306: Introduction to Statistical Computing
<b>Fall 2022</b>	STATS 250: Introduction to Statistics and Data Analysis

## Service and mentorship

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**Graduate Tutor** **January 2024 - Present**  
*Department of Statistics, University of Michigan* Ann Arbor, MI

**Graduate Mentor** **January 2024 - May 2024**  
*Undergraduate Research Program in Statistics, University of Michigan* Ann Arbor, MI

**Datathon Judge** **March 2024**  
*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

**Strategy Consultant** **September 2019 - December 2019**  
*180 Degrees Consulting, University of Minnesota* Minneapolis, MN

## Honors and awards

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**Best oral presentation, applications session.** Michigan Student Symposium for Interdisciplinary Statistical Sciences. Spring 2024.

**Emerging Researcher Award.** Department of Statistics Visit Day, University of Michigan. Spring 2024.

**Buehler Memorial Undergraduate Award.** School of Statistics, University of Minnesota. Spring 2022.

**Honorable mention, ASA student paper competition.** American Statistical Association, Section on Medical Devices and Diagnostics. Spring 2022.