

# **Joshua Wasserman**

## Curriculum vitae

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## **Research Interests**

- Causal analyses of social policies, drug therapies, and education interventions
- Matching and weighting methods for causal inference in observational studies
- Statistical software
- Methods for addressing missing data and measurement error
- Randomized trial design
- Survey sampling design

## **Education**

**PhD**, Statistics, University of Michigan - Ann Arbor. Advisor: Ben B. Hansen. Fall 2021-present.

**MA**, Statistics, University of Michigan – Ann Arbor. Fall 2021-Fall 2023.

**BA**, Mathematical Methods in the Social Sciences (MMSS) and Statistics, Northwestern University. Fall 2015-Spring 2019.

## **Publications**

### **Published/Accepted in Peer-Reviewed Journals**

Ward, A. C., Rosenfeld, J. P., Sitar, E. J., **Wasserman J. W.** (2020). "The Effect of Retroactive Memory Interference on the P300-based Complex Trial Protocol (CTP)." *International Journal of Psychophysiology*, 147, 213-223. doi: 10.1016/j.ijpsycho.2019.10.016.

Rosenfeld, J. P., Sitar, E. J., **Wasserman J. D.**, Ward, A. (2018). "Moderate financial incentive does not appear to influence the P300 Concealed Information Test (CIT) effect in the Complex Trial Protocol (CTP) version of the CIT in a forensic scenario, while affecting P300 peak latencies and behavior." *International Journal of Psychophysiology*, 125, 42-49. doi: 10.1016/j.ijpsycho.2018.02.006.

### **Submitted to Peer-Reviewed Journals**

**Wasserman, J.**, Elliott, M. R., Hansen, B. B. (2025). "Propensity score adjustment when errors in achievement measures inform treatment assignment," submitted to *Journal of Educational and Behavioral Statistics*.

**Wasserman, J.**, Pang, H., Zhu, J. (2025). "Addressing missing data in clinical trials with a hybrid control arm," submitted to *Statistics in Medicine*.

## Published Contributions to Textbooks

Ward, A. C. Ward, Rosenfeld, J. P., Wasserman, J. D., Sitar, E. J., Davydova, E., Labkovsky, E. (2018). "Effects of Motivational Manipulations on the P300-based Complex Trial Protocol for Concealed Information Detection." *Detecting Concealed Information and Deception: Recent Developments*, 1<sup>st</sup> Edition. Academic Press. doi: 10.1016/B978-0-12-812729-2.00006-9.

## Software

"propertee", a free add-on R package for direct- and covariate-adjusted intent-to-treat effect estimates. Co-author with J. Errickson, and B. Hansen.

## Teaching Experience

### Graduate Student Instructor (Teaching)

STATS 485: Capstone Seminar, University of Michigan – Ann Arbor. Winter 2023.

An upper-level course on conducting statistical analyses and writing manuscripts for publication. Held weekly office hours and graded research reports and homework.

STATS 480: Survey Sampling, University of Michigan – Ann Arbor. Winter 2022.

An upper-level course on sampling designs and associated standard errors. Held weekly lab sections and office hours and graded assignments.

DATASCI 470: Introduction to the Design of Experiments, University of Michigan – Ann Arbor. Fall 2025.

An upper-level course on causal inference, the principles of experimental design, and common designs and methods of analysis. Held weekly lab sections and office hours and graded assignments.

STATS 250: Intro to Statistics and Data Analysis, University of Michigan – Ann Arbor. Fall 2021.

An introductory cross-discipline course for 1100 undergraduates. Held weekly lab sections and office hours and graded exams and homework.

### Graduate Student Instructor (Grading)

STATS 501: Advanced Regression Analysis, University of Michigan – Ann Arbor. Fall 2023.

A graduate-level course on advanced regression techniques including splines, nonparametric smoothers, and mixed-effects modeling. Held weekly office hours and graded homework.

## Other Teaching/Mentorship Positions

Research Co-Mentor, Big Data Summer Institute, University of Michigan – Ann Arbor. Summer 2023.

Provided statistical and programming guidance to undergraduates during six-week research projects into the relationships between tumor imaging data, genetic expression data, and health outcome data.

Undergraduate Research Project Supervisor, University of Michigan – Ann Arbor. Winter 2024.

Supervised two undergraduates evaluating model fits to student test score data.

Student Tutor, Northwestern University. Fall 2018-Spring 2019.

Tutored students in statistics, economics, and calculus courses.

## **Work Experience**

Biostats Intern (Methods, Collaboration and Outreach), Genentech, South SF, CA. June 2024-June 2025.

Data Scientist (Surveys Team, Political Team), Civis Analytics, Chicago, IL. August 2019-July 2021.

Applied Data Science Intern (Political Team), Civis Analytics, Chicago, IL. June 2018-August 2018.

Data Analyst Intern, The Terry Group, Chicago, IL. June 2017-August 2017.

Co-President/Head of Analytics, And1 Analytics, LLC, San Francisco, CA. January 2015-March 2016.

## **Awards**

Michael Dacey Prize for Best MMSS Thesis, Northwestern University MMSS.

Departmental Honors, Department of Statistics, Northwestern University.

Dean's List, Northwestern University.

## **Presentations**

65<sup>th</sup> International Statistics Institute World Congress, The Hague, The Netherlands. Paper. October 2025.

useR! Conference 2025. Durham, NC, USA. Paper. August 2025.

Association for Education & Finance Policy Conference. Baltimore, MD, USA. Paper. March 2024.

Joint Statistical Meetings. Toronto, ON, Canada. Poster. August 2023.

American Causal Inference Conference. Austin, TX, USA. Poster. May 2023.

## **Service**

### **Department Service**

Panel Participant, "Preparing and Applying to Grad School", Fall Preview Weekend 2022.

## **Computing Skills**

### **Programming Languages**

R, Python, SQL, Linux

### **Version Control and Reproducibility**

Docker, Git, Github, Makefile

## **Miscellaneous**

Fluent in Spanish