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

A. C. Ward, J. P. Rosenfeld, E. J. Sitar, J. D. Wasserman (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.

J. P. Rosenfeld, E. J. Sitar, J. D. Wasserman, A. Ward (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.

Published Contributions to Textbooks

A. C. Ward, J. P. Rosenfeld, J. D. Wasserman, E. J. Sitar, E. Davydova, E. Labkovsky (2018). "Effects of Motivational Manipulations on the P300-based Complex Trial Protocol for Concealed Information Detection." *Detecting Concealed Information and Deception: Recent Developments*, 1st 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

65th 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