Daryl Swartzentruber

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EDUCATION

Ph.D., Statistics, The Ohio State University, May 2023 (expected)
Dissertation: *Regression Discontinuity Designs for Small Studies (tentative)*
Advisor: Eloise Kaizar

Certificate in College and University Teaching, The Ohio State University, May 2023 (expected)

M.S., Statistics, The Ohio State University, December 2019

M.S., Mathematics, Eastern Kentucky University, August 2014
Option: Statistics

B.A., Mathematics, Transylvania University, May 2006
Graduated *summa cum laude*
Minors: Education, History

TEACHING EXPERIENCE

Graduate Teaching Assistant: Instructor of Record, The Ohio State University, 2018-present
Courses: STAT 3470 (Introduction to Probability and Statistics for Engineers), STAT 3301 (Statistical Modeling for Discovery I), STAT 2450 (Introduction to Statistical Analysis I)

- Taught both in-person and online sections of STAT 3470 for a total of 11 sections over 8 semesters. In person sections included around 70-200 students. Online sections included around 120-620 students.
- Taught one online section of STAT 2450 with 40 students.
- Currently teaching one in-person section of STAT 3301 with 35 students.
- Developed and delivered in-person lectures and recorded lecture videos.
- Created homework and quiz assignments, in-class formative assessment through classroom response software, and supplemental materials.
- Moderated discussion boards and held office hours.
- Wrote and administered exams, created grading rubrics, and trained and supervised graders.

Graduate Teaching Assistant: Lead TA, The Ohio State University, 2018-2019
Course: STAT 1450 (Introduction to the Practice of Statistics)
- This course contains three to four sections each semester, a mix of in-person and online, for a total of 300-500 students, and is overseen by a course coordinator. Was the lead TA for two semesters.
- Worked with the coordinator to organize the course, supervise the other teaching assistants, and lead a weekly course meeting.
- Helped train the other teaching assistants on the online homework system.

Graduate Teaching Assistant: Recitation Leader, The Ohio State University, 2017-2021
Courses: STAT 1450 (Introduction to the Practice of Statistics), STAT 2450 (Introduction to Statistical Analysis I), STAT 1430 (Statistics for the Business Sciences)
- Worked with eight in-person sections over four semesters. Led a weekly hour-long recitation for about 30 students, including reviewing course material and supervising an activity.
- Also worked with three online sections in which I held weekly online office hours.
- Helped to grade exams.
- Tutored individuals and small groups in the department tutoring center.

High School Mathematics Teacher: Bryan Station High School, 2015-2017
- Taught AP Statistics for two years and a general statistics class for one year, as well as other mathematics courses.

High School Mathematics Teacher: Bourbon County High School, 2009-2015
- Taught AP Statistics for five years as well as other mathematics courses.

RESEARCH EXPERIENCE

Graduate Student, The Ohio State University, 2019-present
- Working with my advisor, Dr. Eloise Kaizar, to develop new methods and provide practical advice for regression discontinuity designs for small studies.
- Collected data on my own teaching strategies to analyze with our methods.
- Working with a fellow graduate student on applying causal inference methods to NBA play-by-play data.

PUBLICATIONS

- Swartzentruber, Daryl, & Kaizar, Eloise (2022). Small Study Regression Discontinuity Designs: Density Inclusive Study Size Metric and Performance. https://doi.org/10.48550/arXiv.2209.01396. (Under Review at *Journal of Educational and Behavioral Statistics*)

PRESENTATIONS

- Swartzentruber, Daryl (2022, August 6-11). *A Comparison of Regression Discontinuity Effect Estimation for Small Samples* [Speed/Poster Presentation]. Joint Statistical Meetings 2022, Washington, D.C., United States.
- Swartzentruber, Daryl and Sasan, Prateek (2022, October 8). *The Causal Effect of the Two-for-One Strategy in the NBA* [Poster Presentation]. University of Connecticut Sports Analytics Symposium 2022, Storrs, CT, United States.

AWARDS AND HONORS

Graduate Associate Teaching Award (GATA), The Ohio State University, 2020
Thomas and Jean Powers Teaching Award, The Ohio State University, 2019
McKee Scholarship, Delta Sigma Phi, 2017
George Stopp Academic Achievement Award, Transylvania University, 2006
Omicron Delta Kappa Honor Society, Transylvania University, 2005
Phi Alpha Theta Honor Society, Transylvania University, 2005
William T. Young Scholarship, Transylvania University, 2002-2006

PROFESSIONAL EXPERIENCE

AP Statistics Reader, Educational Testing Service, 2016-present
- Work with other instructors to grade AP Statistics exams.

Consultant, AdvanceKY, 2013-2017
- Prepared for and taught review sessions for high school students covering material on the AP Statistics exam.

Short-Term International Intern, Cru, 2006-2008
- Lived in Ekaterinburg, Russia for two years.
- Took Russian language classes at a local university.
- Led Bible studies and spiritual retreats for college students and mentored student leaders.

SERVICE
- Served as a judge of statistics projects at the Ohio state science fair, 2019.

PROFESSIONAL MEMBERSHIPS
American Statistical Association (ASA)

TECHNICAL SKILLS
Programming languages/mathematical software: R (fluent), SAS (familiar), STATA (familiar), SPSS (familiar).