

MERRILL WARNICK

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ADVISORS

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PRIMARY RESEARCH FIELDS

Labor Economics, Applied Econometrics, Economics of Education

EDUCATION

2019 – Stanford University, PhD Economics (Candidate)

2012 – 2018 Brigham Young University, BS Mathematics and Economics with Honors

PUBLICATIONS

A Design-based Perspective on Synthetic Controls (with Lea Bottmer, Guido Imbens, and Jann Spiess), 2023, *Journal of Business and Economic Statistics*. [\[link to paper\]](#)

Why Have College Completion Rates Increased? (with Jeffery T. Denning, Eric Eide, Kevin Mumford, and Richard Patterson), 2022, *AEJ: Applied*. [\[link to paper\]](#)

Divisibility Properties of Coefficients of Modular Functions in Genus Zero Levels (with Victoria Iba, and Paul Jenkins), 2019, *Integers*. [\[link to paper\]](#)

RESEARCH IN PROGRESS

Instructor Value-added in Post-secondary Education (with Jacob Light and Anthony Yim)
[\[link to paper\]](#) (Job Market Paper)

Estimating instructors' value-added is challenging in post-secondary education because students can select their courses and instructors. In the absence of sound measures of value-added, universities use subjective student evaluations to make important decisions. We develop a method to estimate instructor value-added at any university which groups students together based on their past courses taken. We show that our non-experimental method controls for selection just as well as methods that exploit conditional random assignment of students to courses, using a unique policy change at a large public university in Indiana. We then apply our methods to 33 Texas public universities and standard forecast bias tests to demonstrate that our method controls for selection at a wide variety of post-secondary institutions. We find that individual instructors matter for students' future grades and post-college earnings in many subjects and courses. On average, moving to a 1 standard deviation better instructor would increase a student's next semester GPA by 0.13 points, and earnings six years after college entry by 17%. Strikingly, value-added is only weakly correlated with student evaluations, so an institution that made personnel decisions based on value-added rather than evaluations would improve student outcomes.

The Costs and Benefits of Multi-Dimensional Grading Leniency (with Jeffrey T. Denning, Rachel Nesbit and Nolan Pope) [\[link to paper\]](#)

The Importance of Non-Major Courses in Predicting College Students' Post-graduation Outcomes (with Jacob Light)

Performance-based Funding and Grading Standards in Higher Education

FELLOWSHIPS, GRANTS, AND AWARDS

2024	Leonard W. Ely and Shirley R. Ely Graduate Student Fellowship
2024	Stanford H&S GRO Grant (with Jacob Light) \$4,000
2024	Stanford IRiSS Research Data Grant \$1,500
2023	Stanford H&S GRO Grant (with Jacob Light) \$5,000
2023	George Schultz Dissertation Grant (with Jacob Light) \$2000
2023	Outstanding Teaching Assistant Award
2022	George Schultz Dissertation Grant (with Jacob Light) \$3000
2022	Outstanding Teaching Assistant Award
2012	Heritage Scholarship, Brigham Young University

TEACHING AND RESEARCH ASSISTANCE

2022-2024	Econ 271 Intermediate Econometrics II (graduate level)
2024	Econ 102b Applied Econometrics II
2024	Econ 43 Intro to Financial Decision Making
2020-2023	Research Assistant for Professor Guido Imbens
2023	Econ 146 Economics of Education
2023	Econ 1 Principles of Economics
2022	Econ 270 Intermediate Econometrics I (graduate-level)
2019	Research Assistant, BYU Record Linking Lab, Dr. Joseph Price
2018 – 2019	Research Assistant for Dr. Brigham Frandsen
2017 – 2019	Research Assistant for Dr. Jeffrey Denning
2018	Econ 588 Advanced Econometrics
2017	Econ 388 Introductory Econometrics

PRESENTATIONS

2024	Stanford Applied Economics Workshop
2024	BYU Economics Graduate Student Conference
2023	Stanford Applied Economics Workshop
2022	BYU Economics Graduate Student Conference
2021	Econometric Society North American Summer Meeting

REFEREEING

2022	Journal of Labor Economics
2022	Economics of Education Review