

# Joshua Witter, Ph.D.

DATA SCIENCE, ECONOMICS, CAUSAL INFERENCE

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## Education

### Texas A&M University

DOCTORATE OF ECONOMICS

College Station, TX

May 2020

### Brigham Young University

BACHELOR OF ECONOMICS, MINOR IN MATHEMATICS

Provo, UT

December 2014

## Technical Skills

**Programming (Advanced)** Python, SQL, Stata, Git, AWS, Latex

**Programming (Some Experience)** R, HTML, C++, Matlab

**Econometrics** Difference-in-Differences, Event Study, Regression Discontinuity, Instrumental Variables, Fixed Effects, Synthetic Control, Matching, Double Machine Learning

**Research Design** Quasi-experimental, Field experiments, Behavioral Lab experiments, and Causal Machine Learning

## Industry Experience

### Amazon.com LLC, Central Science

ECONOMIST II (FULL-TIME)

Las Vegas, NV

August 2022 - PRESENT

- Coordinated program managers, BIEs, data engineers, researchers, and leaders to gather/ingest data to produce reports answering ambiguous questions about warehouse employee safety, training, and productivity
- Built, troubleshooted, and deployed econometric machine learning models for production to estimate and identify the primary drivers of warehouse injuries and workers compensation costs
- Used Python, SQL, and Stata to clean, compile, and analyze internal and third-party workforce data
- Conveyed sophisticated statistical concepts, measures, and results to leaders and stakeholders through research reports, PRFAQs, emails, and presentations.
- Mentored team members on computer system set up, data permissions, and causal inference methods.
- Helped organize the 2024 Economist Summit.
- Promoted from Economist I to Economist II in April 2024.

### The Church of Jesus Christ of Latter-day Saints, Correlation Research Division

RESEARCHER 2 (FULL-TIME)

Salt Lake City, UT

April 2020 - July 2022

- Led interdisciplinary research projects to evaluate effectiveness of new training curriculum, and employment resource centers using econometrics, field experiments, survey research, psychometrics, interviews, and focus groups.
- Trained co-workers on causal inference methods (e.g., Experimental Design, Diff-in-Diff, Interrupted Time Series) and statistical corrections (e.g., raking weights for survey analysis, clustering standard errors for inference).

## Teaching Experience

### Brigham Young University - Economics

ADJUNCT INSTRUCTOR, TEACHING ASSISTANT

Provo, UT

Spring 2021

- Prepared lectures and taught Spring 2021 Principles of Economics course (remote).
- Managed group of Teaching Assistants for grading assignments and holding recitations.

### Texas A&M University - Economics, BYU - Economics

GRADUATE STUDENT INSTRUCTOR, TEACHING ASSISTANT

College Station, TX

September 2015- April 2020

- Taught Intermediate Microeconomic Theory course and received department 'Graduate Student Instructor of the Year' award.
- Taught introductory and intermediate statistics concepts, programming in Excel and Stata, best research writing practices, and coached students on their semester data analysis project which required gathering and cleaning data, conducting inference, and writing up results.

## Academic Research Experience

## Texas A&M University - Economics Department

College Station, TX

PH.D. STUDENT, RESEARCH ASSISTANT

Sept 2015 - May 2020

- Conducted research with historical ACS, CPS, MEPS, and SIPP data to capture impacts for low-income workers faced with federal and state policy changes to Medicaid, Social Security, Minimum Wages, and Tax Credits
- Tested economic theory with lab experiment to study charitable contributions.
- Planned and conducted field experiment to research bias in business-consumer transactions.
- Presented research at conferences in the US, Canada, and China
- Received 3rd year department research award for presentation about impacts of minimum wages on teen employment.
- Held Special Sworn Status through Census Bureau to conduct research with restricted versions of Census microdata

## Stanford Institute for Economic Policy Research (SIEPR)

Remote

RESEARCH ASSISTANT

May 2017 - August 2017

- Wrote and submitted grant proposal. Awarded grant from National Institute of Aging.
- Merged government, private, and public data to research the impact of state Medicaid policies on prescription drug utilization, health, and mortality

## Volunteer Experience

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### Moapa Valley Community Education Advisory Board (MVCEAB)

Logandale, NV

BOARD MEMBER, SECRETARY

April 2025- Present

- Met with Clark County School District and Nevada State Department of Education leaders to advocate for different budget allocation strategy for rural schools that were negatively impacted by new per-pupil allocation rule.
- Met quarterly with local principals and associate regional superintendent to discuss local schools' needs and action items for board to take.
- Organized committee to plan local math tutoring nights.
- Build and maintain MVCEAB website.

### Moapa Valley Education Foundation (MVEF)

Logandale, NV

BOARD MEMBER

October 2024- Present

- Manage non-profit scholarship funds and advise on scholarship funds growth strategy.
- Build and maintain MVEF website for collecting local scholarship donations.