

Joe Patten

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1590 NE Northwood Dr D101, Pullman, WA

EDUCATION

PhD, Economics

Washington State University; GPA: 4.0/4.0

- Focuses: Econometrics, Labor Economics, Economics of Education

May 2021 (Expected)
Pullman, WA

MS, Computer Science (Focus in Machine Learning)

Washington State University; GPA: 4.0/4.0

May 2021 (Expected)
Pullman, WA

B.S., Exercise Science (Focus in Biomechanics)

Brigham Young University; GPA: 3.8/4.0; Cum Laude

2012
Provo, UT

RELEVANT GRADUATE-LEVEL COURSEWORK

- Statistics for Economists, Econometrics I-IV (OLS, MLE, Bayesian Statistics, Machine and Deep Learning), Statistical Computing
- Advanced Algorithms, Machine Learning, Data Science, Artificial Intelligence

SKILLS

- **Languages/Tools:** Python, Stata, R, ~~TeX~~ SQL, Git, Excel, Linux
familiar with Spark, AWS, Matlab, HTML/CSS, Tableau, C++

RESEARCH EXPERIENCE

Benjamin Cowan, Washington State University

Graduate Research Assistant

- Build, clean, and run analyses on large datasets (10 million+ observations), high dimensional datasets (1000+ variables), and confidential datasets using Python, R, and Stata
- Devised instrumental variables approach (2-stage least squares) to estimate effects of state spending on college outcomes
- Implemented causal inference techniques to evaluate effects of college openings on labor outcomes in Ethiopia

2017, 2019-Present
Pullman, WA

Jonathan Yoder, Washington State University

Graduate Research Assistant

- Cleaned and merged multiple waves of Tanzania panel data and African weather data using Python
- Used parametric and nonparametric statistical approaches to examine effects of drought on herd composition in Tanzania

2018 - 2019
Pullman, WA

Brent Hickman, University of Chicago

Undergraduate Research Assistant

- Assisted in the design and implementation of affirmative action field experiment in Chicago
- Built, cleaned, and analyzed datasets containing students from several schools using Stata and Matlab

2014
Chicago, IL

Joseph Price, Brigham Young University

Undergraduate Research Assistant

- Hired and supervised 10 undergraduate students to assist in affirmative action field experiment in Utah
- Implemented various econometric techniques to evaluate topics in Labor and Education Economics using Stata

2013-2014
Provo, UT

TEACHING EXPERIENCE

Washington State University

Instructor

- Created and taught PhD Math camp (linear algebra, set theory, real analysis, multivariate calculus, and optimization), Summer 2018, Summer 2019. Average Rating: 4.6/5.0
- Created and taught Sports Economics, Spring 2017, Spring 2018. Average Rating: 4.2/5.0
- Created and developed online Labor Economics course, Summer 2018.

2017 - Present
Pullman, WA

AWARDS AND ACHIEVEMENTS

- Comprehensive Exams Passed: Econometrics (with distinction), Microeconomics (with distinction), and Macroeconomics (with distinction), 2017
- James C. Nelson Fellowship, 2016
- Washington State University Graduate Assistantship, 2016-Present
- BYU Full Academic Scholarship, 2010-2012
- BYU Dean's List, 2009-2010