

Joe Patten

Email: joseph.patten@wsu.edu | Phone: 209-840-0769 | LinkedIn: [joepatten](#) | Website: joepatten.com
1590 NE Northwood Dr D101, Pullman, WA 99163

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
- Machine Learning, Data Science, Artificial Intelligence, Big Data, Advanced Graph Theory, Advanced Algorithms

SKILLS

- **Languages/Tools:** Python, Stata, R, \LaTeX , SQL, Git, Excel, Linux
familiar with Spark (use with big data), JavaScript (D3.js), AWS, Matlab, HTML/CSS, Tableau, C++

WORK EXPERIENCE

WeWork

Research and Applied Science Intern

Jan 2020 - Jun 2020

Palo Alto, CA

- Implemented model combining machine learning and econometrics to estimate the downtime of vacant offices that was later used in production
- Designed and administered experiment to estimate revenue-maximizing prices at China WeWork locations

RESEARCH EXPERIENCE

Benjamin Cowan, Washington State University

Graduate Research Assistant

2017, 2019

Pullman, WA

- 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

Jonathan Yoder, Washington State University

Graduate Research Assistant

2018 - 2019

Pullman, WA

- 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

Brent Hickman, University of Chicago

Undergraduate Research Assistant

2014

Chicago, IL

- 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

Joseph Price, Brigham Young University

Undergraduate Research Assistant

2013-2014

Provo, UT

- 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

AWARDS AND ACHIEVEMENTS

- School of Economic Sciences Excellence in Teaching Award, 2019
- 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