# JOE PATTEN

## Economist, Data Scientist, PhD Student

@ joseph.patten@wsu.edu   ☎ 209-840-0769   ✉ 1590 NE Northwood Dr D101, Pullman, WA 99163
📍 Pullman, WA   in linkedin.com/in/joepatten   % joepatten.com

## WORK EXPERIENCE

### WeWork
**Research and Applied Science Intern**

📅 Jan 2020 – Jul 2020          📍 Palo Alto, CA

- Designed and administered experiment to estimate and recommend revenue-maximizing prices at China WeWork locations
- Used a combination of machine learning, economics, and data visualization to aid in algorithmic pricing of office units

### Ben Cowan and Jon Yoder, Washington State University
**Graduate Research Assistant**

📅 May 2017 – Dec 2019          📍 Pullman, WA

- Devised causal inference approaches and analyses for various projects in Economics of Education and Developmental Economics.
- Built, cleaned, and ran econometric analyses on large datasets (10 million+ observations), high dimensional datasets (1000+ variables), and confidential datasets using Python, R, and Stata

### Brent Hickman, The University of Chicago
**Research Assistant**

📅 Jan 2014 – Dec 2014          📍 Chicago, IL

- Assisted in the design and implementation of affirmative action field experiment in Chicago that later appeared in FiveThirtyEight
- Built, cleaned, and analyzed datasets containing student data from several schools

### Joe Price, Brigham Young University
**Research Assistant**

📅 Aug 2013 – Dec 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 Economics of Education

## RELEVANT GRADUATE COURSEWORK

| Machine Learning | Data Science | Artificial Intelligence |
| Big Data | Advanced Graph Theory | Advanced Algorithms |
| Statistical Computing | Econometrics I-IV | Graduate Statistics |

## EXPERTISE

| Causal Inference | Statistics |
| Machine Learning | Experiments |
| Data Visualization (D3.js) |

## EDUCATION

### PhD, Economics
**Washington State University**

📅 May 2021 (Expected)

- GPA: 4.0/4.0
- Focuses: Econometrics, Labor Economics, Economics of Education

### MS, Computer Science
**Washington State University**

📅 May 2021 (Expected)

- GPA: 4.0/4.0

### BS, Kinesiology
**Brigham Young University**

📅 2012

- GPA: 3.8/4.0, Cum Laude

## SKILLS

| Python | Javascript (D3.js) | R | Stata |
| Spark | SQL | Git | Linux |

## PROJECTS %

- Effect of Community College Spending on Nearby For-Profit Enrollment (Paper)
- Effect of Drought on Herd Composition in Tanzania (Paper)
- Esports Forecasting Using Monte Carlo Simulation and Machine Learning
- Affirmative Action and Human Capital Investment (Paper)
- Creating a Recommender System using Amazon Big Data