

Joe Patten

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EDUCATION	PhD in Economics, Washington State University 2016 - 2020 (Expected) Advisor: Ben Cowan GPA: 3.98/4.00 BS in Exercise Science (Biomechanics), Brigham Young University 2012 <i>Cum Laude</i>
RESEARCH INTERESTS	Labor Economics, Economics of Education, Industrial Organization, Applied Econometrics
RESEARCH EXPERIENCE	Research Assistant Jonathan Yoder - <i>Washington State University</i> 2018-Present Benjamin Cowan - <i>Washington State University</i> 2017 Brent Hickman - <i>University of Chicago (now at Queen's University)</i> 2014 Joseph Price - <i>Brigham Young University</i> 2013-2014
WORKS IN PROGRESS	Patten, Joseph , Benjamin Cowan, "The Impact of Spending and Price on College Outcomes at the State Level" Patten, Joseph , Jonathan Yoder, "The Effect of Drought on Herd Composition in Tanzania" Patten, Joseph , "Incentives of Corporate Fraud and Whistleblowing"
AWARDS & ACHIEVEMENTS	Comprehensive Exams Passed: Econometrics (with distinction), 2017 Microeconomics (with distinction), and Macroeconomics (with distinction) James C. Nelson Fellowship 2016 Washington State University Graduate Assistantship 2016-Present BYU Full Academic Scholarship 2010-2012 BYU Dean's List 2009-2010
TEACHING EXPERIENCE	Instructor PhD Math Camp (ECONS 506), Washington State University Summer 2018 Sport Economics (ECONS 321), Washington State University Spring 2018 Sport Economics Online (ECONS 321), Washington State University Spring 2017 Online Course Development Labor Economics (ECONS 323), Washington State University Summer 2018 Teaching Assistant Labor Economics (ECONS 323), Washington State University Fall 2017 Biomechanics (EXSC 362), Brigham Young University Fall 2012, Spring 2013

SKILLS	<p>Languages/Technologies: Python, Stata, R, L^AT_EX, SQL, Tableau, AWS</p> <p>Econometric analysis in research: Panel data analysis, instrumental variables, difference-in-differences, regression discontinuity, and field experiments</p> <p>Dataset experience in research: Build, clean, and run analysis on large datasets (10 million+ observations), high dimensional datasets (1000+ variables), and confidential datasets</p>	
RELEVANT COURSEWORK	<p>Econometrics I: Ordinary least squares, maximum likelihood, general method of moments</p> <p>Econometrics II: Panel data: fixed effects, difference-in-differences, instrumental variables; regression discontinuity, nonparametric regression, propensity score matching</p> <p>Econometrics III: Advanced panel data: first differences, random trend, synthetic control; Bayesian statistics</p> <p>Econometrics IV: Machine and deep learning techniques: mini-batch gradient descent, support vector machines, neural networks; time series</p> <p>Machine Learning: Support vector machines, neural networks, clustering, random forests, dimensionality reduction</p> <p>Statistical Computing: Stochastic simulation, bootstrap, EM, randomization</p>	
OTHER EXPERIENCE	<p>WSU Python Working Group Presenter</p> <p>Book edit and proofread: <i>“Intermediate Microeconomic Theory: Tools and Step-by-Step Examples”</i>, MIT Press chapters 1-2</p> <p>WSU Data Carpentry (Python) Workshop Assistant</p> <p>Tax Intern at Montgomery Coscia Greulich LLP</p> <p>Head BYU Soccer Instructor</p> <p>Spanish Language Instructor at Missionary Training Center, Provo, UT</p>	<p>2018-Present</p> <p>2018</p> <p>2018</p> <p>2015</p> <p>2012-2014</p> <p>2010-2011</p>
REFERENCES	<p>Dr. Benjamin Cowan Associate Professor School of Economic Sciences Washington State University Office: (509) 335-2184 Email: ben.cowan@wsu.edu</p> <p>Dr. Felix Munoz-Garcia Associate Professor School of Economic Sciences Washington State University Office: (509) 335-8402 Email: fmunoz@wsu.edu</p>	<p>Dr. Jonathan Yoder Professor School of Economic Sciences Washington State University Office: (509) 335-8596 Email: yoder@wsu.edu</p> <p>Dr. Brent Hickman Assistant Professor Economics Department Queen’s University Office: (613) 533-2280 Email: hickman@econ.queensu.ca</p>