

Keith Barnatchez

Curriculum Vitae

Boston, Massachusetts

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Education

Colby College, 2014-2018

BA (Honors, distinction) Economics-Mathematics

BA (Distinction) Mathematical Sciences, Statistics Concentration

Senior Honors Thesis: Employer Mandates and Firm Dynamics

Advisor: Robert Lester, Economics Department

Research Interests

Bayesian methods in clinical trials, dynamic treatment designs, spatial statistics, measurement error, causal inference

Academic Experience

Research Assistant, [Federal Reserve Bank of Boston](#), Economists Jenny Tang and Viachelslav Sheremirov (2018-present)

Projects: Measuring the transmission effects of monetary policy through international trade networks, causal inference on the signaling effect of monetary policy announcements,

Summer Research Assistant, [Federal Reserve Board of Governors](#), Economists Leland Crane and Ryan Decker (2017)

Projects: Characterizing the spatial distribution of United States Firms, assessing the reliability of the NETS database relative to government data sources

Teaching Assistant for Macroeconomic Theory, [Colby College Economics Department](#), (2017-2018)

Hosted weekly office hours, giving short lectures on topics including two-period optimization problems, social planning problems and graphical models. Graded student assignments.

Independent Research supervised by Professor Robert Lester, [Colby College Economics Department](#) (2017)

Project: Examining patterns in the shares of STEM employment and STEM majors in response to economic recessions.

Teaching Assistant for Introductory Statistics, [Colby College Mathematics & Statistics Department](#), (2016-2018)

Hosted multiple weekly office hours, providing direct support for student questions on assignments and giving short lectures on topics including bootstrapping, sampling distributions and regression modeling.

Teaching Assistant for Calculus I, [Colby College Mathematics & Statistics Department Department](#), (2015-2016)

Hosted weekly office hours, proGraded student assignments and exams.

Other Experience

Data Analyst Summer Intern, OmniClaim (acquired by Equian in 2018), 2016.

Worked with analyst team to develop machine learning algorithms for identifying overpayments in patient claim data

Honors

Phi Beta Kappa, 2018

Mu Sigma Rho, 2018

Colby Economics Department Faculty Prize (for high scholarly attainment), 2017

New England Small Conference Athletic Conference All-Academic Team, 2015-2018

Publications and Working Papers

“An Assessment of the National Establishment Time Series (NETS) Database” (with Leland Crane and Ryan Decker), *FED Working Paper Series*, 2017.

“The Relationship Between Economic Freedom and Economic Dynamism” (with Robert Lester). *Contemporary Economic Policy*, 2017.

Skills

Programming languages: Python (Base, Numpy, Pandas, Matplotlib and Tensorflow), R

Software: Stata & Mata, \LaTeX , Matlab

Extracurricular Activities

Colby College Varsity Cross Country, Track & Field (2014-2018)