

Ben Southgate

Contact

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Education

Carleton College 2009-2013

- B.A., majored in economics (*magna cum laude*)
- Received departmental award and distinction for senior thesis in economics
- Coursework: Data Mining, Data Structures, Econometrics, Linear Algebra, Multi-variable Calculus

George Washington University 2014

- Part-time graduate coursework : Mathematical Statistics, Real Analysis

Professional Experience

Software Engineer 2015-Present

McChrystal Group - Alexandria, VA

- Worked with fully remote, international team.
- Helped develop MEAN stack web application with AWS deployment, as well as WebGL + Three.js visualization

Research Assistant 2013-2015

The Urban Institute - Washington, DC

- Used Stata and SAS for survival analysis, group decomposition, (non) linear regression, and graphics generation
- Used Python for microsimulation, data cleaning and structure manipulation, and task automation, JavaScript for interactive data visualization development

Research Assistant 2012

University of Texas, Pop. Research Center - Austin, TX

- Conducted primary research utilizing U.T. Austin freshman applicant data, resulting in a working paper entitled "Race as a Consideration in the Creation of a Freshman Class: The University of Texas Case" (co-author)
- Used Stata for various regression and descriptive analyses, as well as graphics generation

Academic Experience

Teaching Assistant 2012-2013

Carleton College - Northfield, MN

- Junior / Senior level Macroeconomic Theory Course (ECON 331), which included Growth Modeling, Dynamic Optimization, Interest Rate Targeting, and RBC Analysis
- Ran review sessions, developed graphical and mathematical review material in \LaTeX , and conducted individual tutoring sessions

Selected Publications

Independent Journals

- Benjamin G. Southgate. "LOOP and the Internet Marketplace", *Michigan Journal of Business*, Volume 7 Issue 1 (*forthcoming*)

Urban Institute

- Richard W. Johnson, Benjamin G. Southgate. "How Will State and County Government Employees Fare under Kentucky's New Cash Balance Pension Plan?", April 30, 2014
- Richard W. Johnson, Barbara Butrica, Owen Haaga, Benjamin G. Southgate. "When Do State and Local Pension Plans Encourage Workers to Retire?", April 30, 2014
- Richard W. Johnson, Barbara Butrica, Owen Haaga, Benjamin G. Southgate. "How Long Must State and Local Employees Work to Accumulate Pension Benefits?", April 30, 2014

Programming Experience

JavaScript — 2.5 years (BabelJS / NodeJS / D3 / Angular)

Python — 4 years (web scraping / Pandas / DTW)

Stata — 4 years (decomposition / regression analysis)

\LaTeX — 4 years (Sweave / Stata weaving)

Unix Shell — 3 years (make / AWK / sed)

R — 2 years (regression analysis / data mining)

Java — 2 years (data mining)

SAS — 2 years (extensive macro programming)