

# Ben Southgate

## Contact

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Github := github.com/bsouthga

Blog := bsouth.ga

## Education

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### 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

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### Research Assistant 2013-Present

The Urban Institute - Washington, DC

- Conducted quantitative research on retirement security and the welfare of older Americans
- 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

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### 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  $\text{\LaTeX}$ , and conducted individual tutoring sessions

## Selected Publications

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### 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

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

**Stata** — 4 years (decomposition / regression analysis)

**$\text{\LaTeX}$**  — 4 years (Sweave / Stata weaving)

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

**R** — 3 years (regression analysis / data mining)

**Java** — 2 years (data mining)

**SAS** — 2 years (extensive macro programming)

**JavaScript** — 2 years (CoffeeScript / D3 / JQuery)