

Samuel Bailey

1600 Pennsylvania Ave SE
Apt 214
Washington, DC 20003

Phone: (434) 989-6022
Email: sambailey1729@gmail.com

Experience

- *Research agricultural economist*, United States Department of Agriculture Economic Research Service, Washington, DC | July 2021 – Sept. 2025
 - Contributed to the survey design of USDA's Agricultural Resource Management Survey, focusing on questions about American farmers' adoption of biotech.
 - Led research report on adoption trends and development of new biotech seeds in the United States to inform policymakers and the general public.
 - Calculated descriptive statistics from ARMS data in a variety of languages (R, Stata, SAS) as part of the above-mentioned research report.
 - Contributed to writing code in R for input-output analysis to measure agriculture's importance to industries upstream of it.
 - Contributed to research report on agriculture's financial impact on wider economy.
 - Wrote literature review for part of a handbook chapter on drought tolerant corn in the U.S. and abroad.
 - Created quality-adjusted price series for agricultural inputs to be used in USDA's data product "Agricultural Productivity in the United States."
- *Research analyst for Elena Pastorino*, Opportunity and Inclusive Growth Institute, Federal Reserve Bank of Minneapolis, Minneapolis, Minnesota | Sept. 2017 – June 2021
 - Prepared and cleaned micro data from U.S. and Mexican surveys on consumer behavior for research articles published in peer-reviewed journals.
 - Wrote or revised statistical programs in Stata and Fortran for Dr. Pastorino's research.
- *Intern*, Macroeconomic Analysis Division, Congressional Budget Office, Washington, DC | May 2017 – Aug. 2017
 - Wrote Fortran code that adopted CBO's existing overlapping generations models to incorporate housing decisions in order to improve forecasts of the U.S.'s long-term fiscal situation.
- *Research assistant for Naoki Aizawa*, Department of Economics, University of Minnesota, Minneapolis, Minnesota | Sept. 2016 – June 2017
 - Wrote estimation routines in Matlab based on models created by Dr. Aizawa.
- *Teaching Assistant*, Department of Economics, University of Minnesota, Minneapolis, Minnesota | Aug. 2015 – Aug. 2016
 - Answered questions and worked through examples for incoming PhD students enrolled in a math crash course.
 - Graded problem sets for math crash course.

- Led recitation sessions for undergraduates to review questions left over from the lecture and answer questions about problem sets.
- *Research assistant*, Financial Structure, Research and Statistics, Federal Reserve Board, Washington, DC | Sept. 2013 – July 2015
 - Wrote programs in Stata and SAS that produced descriptive statistics used in analyzing proposed bank mergers.
 - Wrote programs in Stata and SAS for Fed economists' independent research.

Education

- Ph.D. Economics, University of Minnesota, 2021.
- M.A. Economics, University of Minnesota, 2018.
- B.S. Mathematics, University of Chicago, 2013.

Technical Skills

Econometric: structural estimation, generalized method of moments, discrete choice models, causal inference methods (esp. difference-in-difference)

Programming: Julia, Python, R, SAS, Stata (proficient); SQL, Matlab, Fortran (experienced); PySpark (classroom)

Other: Microsoft Office products, Unix terminals, LaTeX, git version control, Federal Research Data Center environment

Clearances

Special Sworn Status, Census Bureau

Honors and Awards

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| 2018 | <i>Third-Place Third Year Paper Competition</i> , Department of Economics, University of Minnesota, Minneapolis, Minnesota. |
| 2016 | <i>Distinguished Teaching Assistant</i> , Department of Economics, University of Minnesota, Minneapolis, Minnesota. |