

Luke B. Miller

CONTACT INFORMATION

Address

Department of Economics
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RESEARCH INTERESTS

Political Economy, Structural Econometrics, Voting Behavior, Applied Microeconomics

PROGRAMMING SKILLS

Python, R, Matlab, Julia, STATA, SQL, Latex

EDUCATION

Georgetown University, Washington, DC
PhD, Economics

2020 - 2025 (expected)

Ohio University, Ohio
Masters of Applied Economics

2019 - 2020

DePauw University, Indiana
BA, Physics and Philosophy

2010 - 2014

WORKING PAPERS

Why People Vote: Comparing Models of Voter Turnout (with Maxime Cugnon de Sévricourt)
Structurally estimates leading theoretical models of voter turnout on U.S. House and U.S. state legislature special election data using Maximum Likelihood Estimation. Estimated models include variations of the pivotal voter model, group based models, and follow-the-leader models. Tests how well each model matches voter behavior and compares across models using the Vuong test. Finds evidence individuals vote when they believe their vote is more likely to influence the election outcome. ([PDF](#))

Tempting FAIT: Flexible Average Inflation Targeting and the Post-COVID U.S. Inflation Surge (with Roberto Duncan and Enrique Martínez García)
Analyzes the causal effect of the Federal Reserve's implementation of Flexible Average Inflation Targeting (FAIT) in August 2020 using the synthetic control method. Estimates suggest FAIT implied a rise in observed CPI inflation around 1 percentage points and core CPI inflation around 0.3 to 0.4 percentage points. Results are robust across a range of specifications and placebo tests.

RESEARCH EXPERIENCE

Economics Department, Georgetown University

Spring 2022 - Present

Research assistant to Laurent Bouton, Garance Genicot, Micael Castaneira, and Allison Stashko for “Pack-Crack-Pack: Gerrymandering with Differential Turnout”.

Collected and organized data on proposed congressional and state legislative redistricting plans in the United States. Wrote Python scripts to combine geo-spatial data of different sizes, conduct counterfactual analyses on redistricting, and model voting behavior.

Economics Department, Georgetown University

Summer 2022

Research assistant for Laurent Bouton in creating a database on small campaign donors.

Wrote code in R and Python to match individuals from a national database of small donors to housing values from Zillow database.

Economics Department, Ohio University

Fall 2019 - Summer 2020

Research assistant to Roberto Duncan for “Just Do IT? An Assessment of Inflation Targeting in a Global Comparative Case Study”.

Wrote code in R to organize macroeconomic variables from various countries into a single data set. Conducted synthetic control analyses to assess the effects of inflation targeting on inflation.

TEACHING EXPERIENCE

Math Camp (PhD), Georgetown University

Summer 2023, 2024

Lead Instructor.

Economic Statistics (Undergraduate), Georgetown University

Summer 2023

Lead Instructor.

Analytical Tools for Political Econ. (Undergraduate), Georgetown University

2023 - 2024

Teaching Assistant for Professor Laurent Bouton.

Economic Statistics (Undergraduate), Georgetown University

2022 - 2024

Teaching Assistant for Professors David Burk and Benjamin Solow.

Intermediate Microeconomics (Undergraduate), Georgetown University

2021 - 2022

Teaching Assistant for Professors Ian Gale and Alan Bester.