LUKE R. STEWART

RESEARCH INTERESTS

Causal inference, nonparametric statistics, heterogeneous treatment effects, statistical learning for clinical and health policy applications.

EDUCATION

University of Pennsylvania *08/2024 - current*
Pursuing a PhD in Biostatistics

Massachusetts Institute of Technology *09/2018 - 05/2022*
Bachelor of Science in Economics with a minor in Mathematics
Course work includes: Real Analysis, Mathematical Statistics, Econometrics, Linear Algebra, Probability and Random Variables

PROJECTS & PAPERS

Foote, C., Meara, E., Skinner, J., and **L. Stewart**. Geography and the Widening Educational Divide in U.S. Midlife Mortality. Work in progress.

Stewart, Luke. The Impact of Medicaid Expansion on Risky Behavior in Low Income Individuals. *The MIT Undergraduate Journal of Economics*, Vol. XXI, 2022.

RESEARCH EXPERIENCE

Research Assistant to Dr. Chris Foote, Federal Reserve Bank of Boston *06/2022 - present*

- Explored the use of various statistical techniques (including panel data models and PCA) to model macroeconomic data for both policy and research projects using Stata and Python.
- Gathered and cleaned data and produced replication packages for long-term research work in demographics, public health, and macroeconomics.
- Created data visualizations of policy-important datasets for use in monetary policy discussions.

Research Assistant to Dr. Josh Angrist, MIT Economics Department *05/2020 - 12/2020*

- Pulled, cleaned, and visualized COVID mortality data from the CDC to analyze geographic disparity in mortality trends.
- Interfaced with research partners in state government to gather data on school enrollment for a project on school integration.

TEACHING EXPERIENCE

Teaching Assistant, Econometrics, MIT Economics Department *08/2020 - 05/2021*

- Taught sections on the use of Stata for econometric analysis to undergraduate and master's students.
- Led office hours to help students understand econometric theory and applications.
- Graded student problem sets with both theoretical and Stata-programming components.

PROFESSIONAL EXPERIENCE

Summer Consultant, Bates White Economic Consulting *06/2021 - 08/2021*

- Reviewed established data processing scripts and drafted a description of the processing to be submitted in a high-profile financial industry court filing.
- Used cross-validation model selection techniques to establish credible counterfactual scenarios in mock case environment.

SKILLS & INTERESTS

Technical Skills

- Statistical Packages: Extensive experience with Stata, including development of customized statistical routines; some familiarity with R.
- Languages: Python (including pandas, matplotlib, sklearn, and statsmodels), some familiarity with Julia.
- Applications: LaTeX, Excel, Git and Github
- Operating Systems: Unix/Linux, Windows

Other Interests

- Running, cycling, cooking, live music