Edward Gilligan

Charlottesville, VA | edwardgilligan6@gmail.com | 914-705-1941 | Website | edward-gilligan | egilligan30

Education

University of Virginia *August 2023 – May 2026*
Bachelor of Arts: *Economics, Classics (Greek)*
Minor: *Mathematics*

- GPA: 3.67/4.0;
- **Relevant Coursework:** Industrial Organization, Game Theory, Experimental Economics, Labor Economics, Introduction to Econometrics, Differential Equations and Dynamical Systems, Elementary Linear Algebra, Basic Real Analysis, Calculus-Based Probability, Abstract Algebra, Programming in R and Matlab
- College of Arts and Sciences Dean's List: Spring 2024, Fall 2024, Spring 2025, Fall 2025

Binghamton University (Transferred) *August 2022 – May 2023*

- GPA: 3.88/4.0; College of Arts and Sciences Dean's List: Fall 2022, Spring 2023.

Experience

Research Assistant *University of Virginia, Department of Economics* *Charlottesville, VA*
Supervisor: Assistant Prof. Po-Hsuan Lin *April 2025 – Present*

- Advance weekly research meetings by synthesizing literature, refining project framing, and contributing to methodological decisions in behavioral and experimental economics.
- Deliver constructive feedback on working papers and presentations, assessing empirical strategies and theoretical underpinnings.
- Propose research ideas and integrate relevant literature to guide experiment design and ongoing project development.

Research Assistant *University of Virginia, Department of Economics* *Charlottesville, VA*
Supervisor: Professor Federico Ciliberto *January 2026 – Present*

- Collect, compile, and clean historical data on 19th-century cotton spinners, manufacturers, and production locations.
- Extract and standardize information from industrial directories, trade records, and archival sources to construct structured datasets.
- Develop codebooks and visualizations to support analysis and presentation of industrial and economic patterns.

Projects

Estimating Demand and Market Outcomes of Oatmeal

- Built and estimated a large-scale structural demand model using 750k supermarket scanner observations, applying high-dimensional fixed effects to quantify price elasticities, consumer substitution, and heterogeneity across products.
- Analyzed complex retail datasets to identify key drivers of purchasing behavior, uncover actionable patterns in category performance, and generate empirical insights aligned with competition and consumer-choice theory.
- Designed and executed counterfactual pricing simulations to forecast revenue, volume, and welfare effects, delivering strategy-ready recommendations that balance profitability, elasticity-driven consumer responses, and category-level tradeoffs.

Analysis of the Legalization of Sports Betting on Financial Outcomes

- Compiled and structured a county-year panel dataset spanning 2013–2024 by integrating federal court bankruptcy records, mortgage delinquency data, Census socioeconomic indicators, and labor-market and health data, ensuring coverage across counties and constructing a balanced panel suitable for causal analysis.
- Estimated the financial effects of online sports betting legalization and found minor increases in mortgage delinquency rates (about 0.06 percentage points for short-term delinquencies and 0.13 percentage points for long-term delinquencies), with near-zero changes in bankruptcy filings (0.04%).
- Demonstrated through robustness checks and placebo tests that these effects are statistically credible but economically small, providing a nuanced interpretation that informs regulatory discussions without overstating policy risks.

Basic Experimental oTree Game

- Built oTree-based behavioral simulation in Python to model stochastic betting, mortgage repayment, and bankruptcy dynamics across repeated rounds.
- Devised dynamic state-update mechanisms adjusting player variables based on probabilistic and financial outcomes.
- Designed modular oTree models with parameterized constants for controlled financial decision-making simulations.

Skills

Languages and Tools: Python – Polars (Advanced), Stata (Advanced), oTree, HTML (Advanced), R (Intermediate), MatLab (Intermediate), Tableau (Intermediate), SQL (Intermediate), LaTeX, MS Office Applications