

Guozhen (Gordon) Ji - CV

Address	2225 Speedway, Austin, TX, 78712	Email	gordonjgz 'at' gmail.com
Telephone	+1 (seven-three-two) 997-5294	Website	https://about.gordonji.phd

Professional Summary

Ph.D. Economist with a background in academic research and consulting at the intersection of economics, technology, and business strategy. Expertise in developing sophisticated econometric models to provide actionable advice on the complex challenges of competition, pricing strategy, and antitrust regulation. Proven ability to manage complex work streams and collaborate with leading academic experts.

Education

2020-2026(exp.)	PhD, Economics, University of Texas at Austin <u>Field courses</u> - Empirical Industrial Organization, Econometrics <u>Research Interests</u> - <i>Industrial Organization, Optimal Pricing, Urban Economics, Transportation Economics</i>
2014-2018	BS w/ General Honors, Statistics and Economics, University of Chicago

Professional & Research Experience

Summer Associate , The Brattle Group <i>Washington, DC</i>	Jun 2025 - Aug 2025
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- **Led the quantitative analysis** for the liability phase of a litigation case, estimating the economic impact of a major health insurer's alleged monopsony power against a U.S. hospital system.
- **Architected** an econometric model to calculate the "but-for" market share using 15 years of national enrollment data. This model's output served as a **primary input** for the project's final damage calculation framework.
- Served as the primary **data storyteller** by translating complex model outputs into clear narratives, directly presenting key results and summary statistics to legal teams, and the testifying academic expert.
- Managed 5 project work streams from raw data processing to final analysis, directly leading 2 research analysts to produce key GIS visualizations and econometric evidence for the case.

Senior Research Associate (for Stephen Redding & Oleg Itskhoki) , Princeton University <i>Princeton, NJ</i>	Jun 2018 - Jun 2020
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- Analyzed data related to US counties and commuting zones and performed shift-share regression analysis.
- Generated geospatial data, and bilateral OD matrix for geo-referencing, color recognition, and regression analysis for Economic Geography projects involving the London bombing, and the Argentine railway.
- Collected world trade and macroeconomics data and conducted data cleaning and preparation.

Research Assistant (for Richard Hornbeck), University of Chicago <i>Chicago, IL</i>	Jun 2017 - Jun 2018
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- Performing research for a project related to economic history and macroeconomic data analysis.
- Collected and analyzed metadata with about 200,000 entries with Excel comparison tools and R programs, checked data entry outputs, and developed a general way to check error rates with Python and Excel Compare Tools.

Research

Working Papers

- Autumn 2025** “Rain or Shine? Optimal Utility Pricing under Extreme Weather” (Job Market Paper)
- Designed and executed a study on the welfare and distributional impacts of nonlinear pricing regulations under volatile, weather-driven demand.
 - Developed a structural demand model integrating household utility data with satellite-derived GIS vegetation data.
 - Quantified that extreme weather imposes a disproportionate welfare loss on low-income households, averaging over \$60 per month, highlighting the need for complementary policies beyond pricing.
- Fall 2022** “Spatial Heterogeneous Consumers: The Welfare Effect of UberPool”
Outstanding 2nd Year Paper Award
- Quantified the consumer surplus impact of UberPool as a new product introduction, accounting for heterogeneous consumer preferences across geographic locations.
 - Demonstrated that the introduction of a shared-ride option increased consumer surplus by over 30%, highlighting the significant value of product variety in a real-world sharing economy marketplace.

Work in Progress

- Spring 2024** “Constrained Price Discrimination on Value of Time”
- Developed a structural model to analyze dynamic pricing mechanisms on tolled roads, a form of price discrimination on the value of time.
 - Conducted a counterfactual analysis to explore the welfare effects of different policies on toll design and infrastructure investments.

Teaching Experience

Instructor

Served as the primary instructor of record for undergraduate sections of 100+ students with full responsibility for syllabus development, assessment design, lecture delivery, and course administration.

Fall 2024	ECO 329, Economic Statistics
Summer 2024	ECO 329, Economic Statistics
Fall 2023	ECO 329, Economic Statistics
Summer 2023	ECO 329, Economic Statistics

Teaching Assistant

Supported lead instructors by grading assignments, holding office hours, and leading review sessions.

Fall 2025	ECO 101S, Economics to Career, Hong Tran Escobar
Spring 2025	ECO 441K, Introduction to Econometrics, Brendan Kline, Helen Schneider
Spring 2024	ECO 320L, Macroeconomic Theory, Andreas Mueller
Spring 2023	ECO 441K, Introduction to Econometrics, Brendan Kline, Helen Schneider
Fall 2022	ECO 441K, Introduction to Econometrics, Daniel Ackerman, Haiqing Xu
Fall 2022	ECO 354M, Experimental Economics, Charity-Joy Acchiardo
Summer 2022	ECO 304L, Introduction to Macroeconomics, Charity-Joy Acchiardo
Spring 2022	ECO 330T, Experimental Economics, Charity-Joy Acchiardo
Fall 2021	ECO 330T, Experimental Economics, Charity-Joy Acchiardo

Mentorship

Undergraduate Research Mentor

Fall 2022 - Present Priyansh Dhandha, University of Texas at Austin

Honors and Scholarships

2022 Outstanding 2nd Year Paper Award, University of Texas at Austin
2020-Present Graduate Fellowship, University of Texas at Austin

Skills

■ Technical Skills

Econometric & Statistical Modeling

Causal Inference, Discrete Choice Models (Logit, BLP), Nonlinear Budget Constraints, Welfare Analysis

Data Analysis & Programming

Languages: Python, R, Stata, MATLAB, SQL

Libraries: Scikit-learn, Panda, NumPy, SciPy, Jax.Jit, dplyr, Tidyverse, ggplot2

Data Engineering & Tools

Databases: PostgreSQL, Relational Data Operations (Joins, Aggregations), ETL Processes

Developer Tools: Git, Jupyter Notebook, VS Code

Geospatial: ArcGIS (Arcpy), Google Earth Engine (geemap)

■ Language Skills

English, Native or bilingual proficiency

Mandarin, Native or bilingual proficiency