

XIAOYI (SHERRY) TANG

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EDUCATION

Harvard University | Department of Economics | Cambridge, MA

Post-baccalaureate studies, Economics; September 2025 - present

Advanced Courses: Principle of Econometrics (PhD core metrics), Environmental & Climate Economics (2nd year PhD)

Reading Groups: Econometrics and Development Reading Group, Financial Economics of Climate and Sustainability Reading Group

University of Chicago | Kenneth C. Griffin Department of Economics | Chicago, IL

Master of Arts in the Social Sciences with Concentration in Economics; GPA: 3.82/4.0, June 2025

Advanced Courses: Empirical Analysis I (PhD core metrics), Applied Econometrics (Booth PhD core), Energy and Environmental Economics III (2nd year PhD), Topics in Labor Markets: Earnings and Employment (2nd year PhD), Market Design (2nd year PhD), A Course In Experimental Economics (2nd year PhD), Mathematical Methods Camp (PhD level), Modern Methods for Applied Regression, Analysis in R^n II

Minzu University of China | School of Economics | Beijing, China

Bachelor of Arts in Economics (with honors); GPA: 91.8/100 (WES:3.89/4.0), June 2024

Relevant Courses: Intermediate Macroeconomics (95/100), Mathematical Economics (96/100), Econometrics (90/100), Linear Algebra (96/100), Probability and Mathematical Statistics (93/100), Dynamic Optimization (91/100), Intermediate Microeconomics, Game Theory, Advanced Mathematics, Analysis of Economic Data (with Python), The Economics of Resources and Environment, Finance, Labor Economics

Thesis: "Children quantity, parental health and the potential mechanisms"

The Hong Kong University of Science and Technology | Hong Kong SAR

Post-baccalaureate studies, Economics; January 2024 - May 2024

Advanced Courses: Quantitative Macroeconomics (PhD core macro)(audited), Convex and Nonconvex Optimization II (stats PhD course)(audited), Behavioral Economics and Public Policy (audited)

University of California, Berkeley | Berkeley, CA

Visiting Undergraduate Student; GPA: 3.89/4.0, January 2022 - May 2022

Relevant Courses: Industrial Organization (2nd year PhD)(A), Development Economics (A), Concepts of Statistics (A-)

RESEARCH EXPERIENCE

• Predoctoral Research Fellow at the Salata Institute at Harvard University: July 2025 - Present

Advisors: Prof. Wolfram Schlenker, Prof. Charles A. Taylor, Harvard University

- Built the project's entire data infrastructure as sole RA: cleaned and harmonized individual-level US Census and ACS microdata (2000–2016, ≈4 million household heads) from IPUMS; developed crosswalks to resolve PUMA boundary changes across census decades, enabling consistent panel construction over ≈1,000 geographic units; constructed bilateral origin–destination migration flow matrices and demographic-stratified datasets totaling over 100GB
- Implemented the Poterba (1984) housing user-cost framework to convert self-reported home values into imputed rental equivalents
- Constructed datasets for multiple identification strategies including Bartik shift-share instruments, China shock instruments , historical migration networks, robot exposure measures, and military placebo tests
- Produced all figures, descriptive statistics, and visualizations for the working paper and conference presentations, including publication-quality maps, scatter plots, and coefficient plots; authored the Data section and two technical appendices of the manuscript; met weekly with faculty co-authors, contributing to research design discussions
- Used Google Earth Engine to get and processed satellite data for weather and climate; conducted times series analysis to see how CO₂ shock can impact agricultural output

Selected Works with Research Contribution:

- [Environmental Drivers of Agricultural Productivity Growth: CO₂ Fertilization of US Field Crops \(Charles Taylor & Wolfram Schlenker\)](#)
- [A Hedonic Social Cost of Carbon: Evidence from US Migration \(Tamma Carleton, Marco Tabellini, Charles A. Taylor, Guglielmo Zappala\)](#)

• Empirical Research on Labor Market: Research Assistant, January 2024 - May 2024

Advisor: Prof. C.Y. Kelvin Yuen, The Hong Kong University of Science and Technology

- Utilized Stata to measure treatment effects of minimum wage increase on employment rate for different types of workers using stacked DID method, developed event study graph
- Used wage-size premium method to estimate labor supply elasticity in several countries

• The Occupational "Sticky Trap" of Digital Labor under Algorithm Control: Independent Research, January 2022 - June 2023

Advisor: Prof. Jing Liu, Minzu University of China

- Conducted 3-month field study and surveyed more than 200 individuals to know how digital labor feel about the "Sticky Trap" through questionnaires and in-depth interviews; Analyzed formation mechanism of "Sticky Trap" through qualitative research

- Performed data cleaning and data analysis with Python & R, and used Structural Equation Model with R lavaan package to explore the relationship between variables
 - Operated Cronbach test by calculating α values and Exploratory Factor Analysis (EFA) by calculating KMO statistics and Bartlett significances with SPSS
- **Empirical Research on Chinese Economic and Social Data:** Research Assistant, April 2022 - October 2022
Advisor: Prof. Zhaopeng Frank Qu, Nanjing University
- Collected data and indicators of economic development such as GDP and Gini Coefficient and integrated databases, performing data cleaning and conducting data analysis and visualization with Stata and R maps & ggplot2
 - Developed novel data processing framework for a recently released radiance dataset known as VNP46A2, part of NASA's Black Marble suite of Nightlight (NTL) products, utilizing QGIS and Python to calculate zonal economic statistics over multiple rasters using NTL data
 - Attended weekly research meetings with other researchers and shared interesting papers and ideas occasionally
- **The Effect of News Recommendation on Consumer Behavior:** Research Assistant, March 2022 - June 2022
PIs: Yunhao Huang, Mengyao Huang & Yixiang Xu, UC Berkeley Haas School of Business (PhD students)
- Performed web scraping (e.g., Microsoft News, New York Times) on more than 60,000 English news articles to collect variables and indicators about consumer behavior with Python Pandas & Beautiful Soap
 - Used Propensity Score Matching and consumer clustering/classification algorithm with Random Forest in Python to explore whether building up and using consumer side as a basis of a simulated online learning environment can enhance performance of recommendation system

PROFESSIONAL EXPERIENCE

- **GUANGFA Securities Co., Ltd:** Equity Research Analyst Intern in TMT team, October 2023 - December 2023
- **Ipsos Consulting Company:** Assistant Analyst Intern in Quantitative Research Department, June 2022 - August 2022

TEACHING EXPERIENCE

- **Applied Econometrics (with Stata), Minzu University of China:** Teaching Assistant for Prof. Yu Bai, September 2023 - January 2024

PRESENTATIONS & WORKSHOPS

2026 Harvard Predoc Seminar (scheduled), Reading Group in Econometrics and Development (scheduled), Reading group in Climate Finance (scheduled)

2024 CUHK RPg Students Summer Workshop, UChicago MA Econ Internal Workshop

2023 China 2023 Health & Aging Economics Summer Camp

FELLOWSHIP & AWARDS

Harvard Predoctoral Fellowship, Harvard University, 2025-2026

Gargoyle Research Scholarship (\$5,000), University of Chicago, 2024-2025

M.A. Director's Scholarship (merit-based) (\$1,000), University of Chicago, 2024-2025

Social Sciences Promise Scholarship (\$5,000), University of Chicago, 2024-2025

Academic Distinction Scholarship ($\times 3$), Minzu University of China, 2020-2024

Innovation Class for Top Talents in Economics (\approx honors program)(selected 35 out of 600+), Minzu University of China, 2020-2024

Special Award in Academic Works Competition for Chinese College Students (Awarded to recognize students' academic potential), 2023

Fei Hsiao-tung Award for Outstanding Academic Achievement (Top 0.3%), Minzu University of China, 2023

Honorable Mention in International Interdisciplinary Contest In Modeling (ICM), 2023

Scholarship to Visit Top Universities in the World (RMB 65,500), Minzu University of China, 2022

SKILLS

- **Programming:** R, Stata, Julia, Python, MATLAB, L^AT_EX, Markdown, Git, Google Earth Engine
- **Languages:** English (fluent), Chinese (native)

REFERENCES

Professor Wolfram Schlenker

Harvard Kennedy School

Ray A Goldberg Professor of the Global Food System

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Professor Charles A Taylor

Harvard Kennedy School

Assistant Professor of Public Policy

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