

Xiaoyi (Shiny) Tang

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EDUCATION

University of Chicago

Chicago, IL

Master of Arts in Economics (with \$11000 scholarship), Kenneth C. Griffin Department of Economics

September 2024 - July 2025 (Expected)

Minzu University of China

Beijing, China

School of Economics, Innovation Class for Top Talents in Economics (selected 35 people out of 500+ applicants)

Bachelor of Arts in Economics; GPA: 91.9/100 (WES:3.89/4)

October 2020 - May 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, Statistics, Advanced Mathematics, Game Theory, Analysis of Economic Data (with Python), Regional Economics, Finance, Political Economics

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

University of California, Berkeley

Berkeley, CA

Visiting Student in Economics and Statistics; GPA: 3.89/4

January 2022 - May 2022

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

RESEARCH INTERESTS

Labor Economics, Development Economics, Political Economics

SKILLS

- **Programming:** Advanced in Stata, Python (Pandas, NumPy, matplotlib), R (dplyr, ggplot2, lmtest, tidyverse); intermediate in Latex, Markdown
- **Languages:** English (IELTS: 7.5, GRE: q170+v152+3.5), Mandarin Chinese (native), Cantonese (basic)
- **Interests:** Debate (MUC Outstanding Debater), Swimming, Guzheng (Chinese zither, 10th Grade-National Level), Social Psychology

RESEARCH EXPERIENCE

- **Empirical Research on Labor Market:** Research Assistant January 2024 - April 2024
Advisor: Dr. C.Y. Kelvin Yuen, Assistant Professor of Economics (The Hong Kong University of Science and Technology)
 - Utilized Stata to measure the effect of minimum wage increase on employment rate for different types of workers by using stacked DID method and draw the event study graph, using the wage-size premium method to estimate the labor supply elasticity in several countries
 - Assisted the professor in building a general-equilibrium search and wage-posting framework with heterogeneous workers and tasks matching in labor markets
 - Audited in some advanced courses including *Advanced Macroeconomics* and *Advanced Optimization* at HKUST(GZ) with PhD students and attended the research seminar every week
- **The Occupational "Sticky Trap" of Digital Labor under Algorithm Control:** Independent Research January 2022 - June 2023
Advisor: Dr. Jing Liu, Professor of Economics (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 the 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: Dr. Zhaopeng Frank Qu, Associate Professor of Economics (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 a 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 research meeting with other research assistants and professor every week, and shared interesting papers and ideas occasionally

- **The Effect of News Recommendation on Consumer Behavior:** Research Assistant March 2022 - June 2022
Researchers: Yixiang Xu & Mengyao Huang, PhD candidates (UC Berkeley Haas School of Business)
 - 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 by building up and using consumer side as a basis of a simulated online learning environment can enhance the performance of the recommendation system

TEACHING EXPERIENCE

- Applied Econometrics (with Stata), Minzu University of China** Beijing, China
Teaching Assistant for Dr. Yu Bai, Professor of Economics September 2023 - January 2024
- Helped the professor prepare for the course materials including Stata guidebooks & real-world data sets & Stata codes and grade assignments & exams
 - Organized sessions for students to show how to apply various econometrics methods using Stata with real-world data
 - Held office hours every two weeks to address some learning difficulties met by students

CONFERENCE

- **2023 Health and Aging Economics Summer Camp:** Organized by PKU-iGHD & Yale Institution for Social and Policy Studies June 2023
 - Presented my working paper *Formation Mechanism and Impact of the Digital Laborers' Occupational "Sticky Trap" under Algorithms: Evidence from a Social Survey for Meituan Take-out Riders*

PROFESSIONAL EXPERIENCE

- GUANGFA Securities Co., Ltd** Beijing, China
Equity Research Analyst October 2023 - December 2023
- Updated databases & annual reports using Microsoft Access and Power BI, followed market trends, and conducted in-depth analysis of TMT industry and enterprises to aid investment decision-making
 - Performed corporate valuation for listed companies through Dividend Discount Model (DDM) and Discounted Cash Flow (DCF) model
- Ipsos Consulting Company** Beijing, China
Assistant Analyst in Quantitative Research Department June 2022 - August 2022
- Assisted mentor to conduct data analysis and wrote key findings (completed the processing of more than 8,000 observations of data), and used Microsoft Excel to conduct t-tests in A/B Testing
 - Operated data visualization by making Pivot Table in Microsoft Excel and drawing bar charts and line charts in Microsoft PowerPoint
 - Participated in the design of three medium-sized project questionnaires about consumer preferences, and removed unreasonable questionnaire results based on the screening requirements

HONORS AND ACADEMIC ACHIEVEMENTS

- UChicago merit-based M.A. Director's Scholarship* April 2024
UChicago Gargoyle Research Scholarship February 2024
Academic Distinction Scholarship at Minzu University of China (three times) 2021-2023
Special Prize Award in 2023 Academic Works Competition for College Students in Beijing (Top 0.5%) May 2023
Honorable Mention in the 2023 Interdisciplinary Contest In Modeling (ICM) February 2023
Scholarship to Visit Top Universities in the World (RMB 65,500) May 2022