

# Juncheng Jiang

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## Summary

I am willing to engage in economic research as a job for a lifetime. This requires me to study further at a prestigious university as a doctoral student to qualify myself for it. Thus, applying for a doctoral program is my short-term goal currently. (Actually, a great master's program or predoctoral program like full-time RA position is also acceptable.)

Currently, my interests mainly lie in public economics, especially the tax system design, and I am willing to explore this field in both theoretical and empirical ways. To achieve the above goals, I am still actively acquiring the fundamental knowledge and skills.

## Education

### Zhongnan University of Economics and Law

*Bachelor of Economics in Public Finance (School of Public Finance and Taxation)*

Wuhan, Hubei, China

Sept. 2022 - May. 2026

GPA: 3.57/4 — Weighted average score: 88.16 (Five Semester)

IELTS: Preparing

GRE: Learning

### Relevant Courses:

Advanced Microeconomics, Intermediate Macroeconomics, Intermediate Econometrics

Calculus, Probability Theory, Statistics, Linear Algebra

Economics of the Public Sector(English Teaching), Economics of Taxation

Intermediate Public Finance, Taxation System of China, Global Public Finance etc

### Courses as auditor:

Mathematical Economics, Dynamic Optimization, Game theory, Numerical Computing Method, Real Analysis

### The Middle School Attached to Northwestern Polytechnical University

*Ranking: top 2.25% (Gaokao in Shaanxi Province)*

Xi'an, Shaanxi, China

Sept. 2019 - Jun. 2022

## Research Interest

**Public Economics:** Optimal tax theory, Fiscal policy and government behaviour, Public debt and transfer payments

**Labour Economics:** Income distribution, Social insurance and welfare, Educational economics

## Ongoing Research

- **Tax Distortion and Monopoly Markup in Vertical Industrial Structure** (the temporary title)
  - \* This is a theoretical topic that focuses on optimal VAT(value-added-tax) system design and I will build a new model based on existing literature.
  - \* Ideally, value-added tax is neutral, but in reality, many small companies do not have the qualifications to issue invoices, which can make taxation non neutral in this production network.
  - \* The model will be designed to address the issue of tax distortion between upstream and downstream enterprises in a vertical industrial structure, especially in monopolistic markets.
- **How does Digital Finance impact the level of Government Budget Management: Evidence from Financial Budget Management Integrated System.**
  - \* This topic is mainly from the project I host which is mentioned in Research Experience item 2. Currently, the fiscal data is based on provincial governments and we are still collecting the city-level data from 2016-2024 which is very laborious.
  - \* It is an empirical paper focused on new fiscal reform issues in China.

## Academic Training

### 1. MIT OpenCourseWare: *Mathematics Real Analysis*

*The Undergraduate and Graduate Level course taught by Dr. Casey Rodriguez*

Massachusetts Institute of Technology

Dec. 2024 - Present

- \* This course covers the fundamentals of mathematical analysis: convergence of sequences and series, continuity, differentiability, Riemann integral, sequences and series of functions, uniformity, and the interchange of limit operations. It shows the utility of abstract concepts through a study of real numbers, and teaches an understanding and construction of proofs.
- \* I systematically am watching recorded course videos and completing exercise assignments.

- \* In the course, I learned about the methods to prove the basic proofs, which are useful for enhancing the understanding of advanced microeconomics.
- 2. Self-learn courses: *Economics 2450a: Public Economics and Fiscal Policy*** **Harvard University**  
*The recorded broadcast of Public Economics Lectures for PhD students taught by Professor Raj Chetty. Mar. 2024 - Jun. 2024*
- \* The course covered basic issues in the optimal design of tax and social insurance policies, with emphasis on combining theoretical models with empirical evidence.
  - \* By reading these videos, I have a better understanding of optimal taxation and other advanced theoretical models which are not given in undergraduate courses.
- 3. Interactive online lecturing: *23 Fall Big Data and Causal Inference Seminar*** **Tsinghua University**  
*The Laboratory of Computational Social Sciences and State Governance Oct. 2023 - Jan. 2024*
- \* The courses invite outstanding young scholars to share their experience using causal inference and big data research methods.
  - \* Participated in workshops and seminars led by experts in social sciences.
  - \* In the course, I learned about causal inference methods like Event Study and DID, Deep IV, Synthetic Control Methods, Machine Learning, etc. And through these methods, I finished my working paper.
- 4. Training camp: *11th Zhongyuan Econometric Lectures*** **Zhongnan University of Economics and Law**  
*The Elite Students Training Camp in Public Finance and Taxation Oct. 2023 - Dec. 2024*
- \* The training camp is divided into two phases. The first phase is about learning modern econometric methods, and the second part is the seminars on the latest literature.
  - \* I learned how to do Empirical research and the fundamental tools designed to analyse data from lectures.
  - \* In the course, I have also tracked and studied the latest literature on applied econometrics
- 5. Summer School: *Jinhe Center for Economic Research*** **University of Oxford & Xi'an Jiaotong University**  
*An Introduction to Python for Economic and Social Data Science July 15th - July 19th 2024*
- \* The course was taught by Dr Charlie Rahal in a "real-time coding" format using the interactive "Jupyter Notebooks" software, with the aim of enhancing students' practical ability to solve social data science problems.
  - \* I have learned the basic application methods of Python for economics and social data science like webscraping, statsmodels and so on.
- 6. Summer School: *2024 Economic Research Oriented Addressing the Real World*** **Shanghai, China**  
*Organized by Young Economist Society and Shanghai University of International Business and Economics Aug.1st-10th 2024*
- \* The summer school invited scholars from famous universities to lecture about how to research economics from textbooks to the real world.
  - \* During summer school, I not only received guidance on learning methods and experience but also gradually understood how economic theory should correspond to reality, whether in China or around the world.
  - \* Especially, in terms of some lectures, I have gained an understanding of **causal inference frameworks, bunching analysis, spatial econometric foundations** etc.

## Research Experience (Mainly)

- 1. Research Assistant (Under research):** **Jan. 2024- Present**  
*Applying for the 2024 National Natural Science Foundation of China Young Scientist Wuhan, Hubei, China*
- \* This project focuses on how individual income tax supports flexible employment in gig economy and we build models to optimize the Income Tax System.
  - \* Undertook the task of cleaning CFPS data with Stata and drew relevant data graphs of basic situations like **income distribution and working hours per week** to identify and summarize the characteristics of flexible employment and formal employment groups
  - \* Collated literature on **Income Shifting** and learned the basic optimal tax theory under the guidance of the tutor Dr Xiaoxiao Wang in our school.
- 2. Project Leader (Under research): National level program (NO:202410520008)** **Dec. 2023 - Present**  
*the 2024 National College Students Innovation and Entrepreneurship Training Program Wuhan, Hubei, China*
- \* The idea of the subject is mainly based on the reform of digital public fiscal transformation in China.
  - \* I am responsible for writing the paper which uses the empirical tool of *Staggered DID* to identify the reform of digital public fiscal transformation effect on government budget management.
  - \* Our project also includes social research on the Chinese government by having interviews with government officials to find the real-life dilemma in the course of reform.
- 3. Interviewer (Finished):** **Dec. 2023 - Mar. 2024**  
*Income Distribution and Common Prosperity Survey of Chinese Household (in Xi'an Area) Xi'an, Shaanxi, China*
- \* The China Income Distribution and Common Prosperity Survey is a nationwide, comprehensive, and continuous large-scale survey project initiated by the Institute of Income Distribution and Public Finance (IIDPF) of Zhongnan University of Economics and Law.
  - \* As an interviewer, I visited 21 families during the vacation to gather information and input this data into the computer.

Other Projects

- "To the West, to the Distant; New Descendants Moving West": Investigated the Influence of Red Culture Spirit on the School Spirit Construction of Xi'an Jiaotong University.* Project Leader, (May-Sept 2023)  
-Led the team and conducted extensive field research .  
-We found that campus culture has a strong impact on students' value choices and career planning.
- "Disappearing Buses": A Study on the Sustainable Development of the Public Transport Industry under the Background of Fiscal Decline in Small and Medium Towns.* Main participant, (Mar- Sept 2023)  
-Analyzed the financial sustainability of public transport in response to local fiscal pressures.  
-Conducted field interviews and data analysis to propose solutions to transport shutdowns.

Work Experience

- 1.Research Assistant:  
*Supervisor: Dr Xiaoxiao Wang*

Sept. 2023- Present  
*Wuhan, Hubei, China*

- \* Be responsible for assisting in collating literature and proofreading working paper.
  - \* Writing and organizing a part of the policy reports in a project.
  - \* Participating in *the Public Economics Seminars* created by her and her coauthor(Dr. Xufeng zhao in SWUEF).
- 2.Teaching Assistant (ZUEL):  
*The undergraduate courses*

Sept. 2024- Present  
*Wuhan, Hubei, China*

- \* (1) **Industrial Economics** course in Fall 2024, responsible for arranging student classroom presentations.  
Instructor: Dr. Jiangchuan Xu
  - \* (2) **National Budget Management** course in Fall 2024, responsible for managing online supplementary courses.  
Instructor: Prof. Jinxiu Wang, Prof. Yinmei Wang

Honors and Awards

- China Undergraduate Mathematical Contest in Modeling(CUMCM) 2024, 2nd Price in Hubei Province (Nov.2024)  
Research and Innovation Scholarship (Oct.2024)  
Huazhong Undergraduate Mathematical Contest in Modelling, 2nd Price (May 2024)  
School-level Excellent Student Cadre (May 2024)  
University-level Excellent League Member (April 2024)  
University-level Individual Scholarship (Nov. 2023)  
School-level Excellent League Member (May 2023)  
School-level Outstanding League Cadre (May 2022)  
The Mathematical Competition of Senior High School of China 2021, 2nd Price in Shaanxi Province (Sept. 2021)  
The Mathematical Competition of Senior High School of China 2020, 2nd Price in Shaanxi Province (Sept. 2020)

Extracurricular Activities

- 1.Student Research Center, Deputy Editor-in-Chief  
*School of Public and Taxation(ZUEL)*

Sept.2022- Present  
*Wuhan, Hubei, China*

- \* Participated in daily academic research activities.
  - \* Oversaw daily operations and facilitated academic projects.
  - \* Created a group of undergraduates to learn how to do economics research.
- 2.Communist Youth League Organization Department, League Cadre  
*School of Public and Taxation(ZUEL)*

Sept.2022- Jun.2024  
*Wuhan, Hubei, China*

- \* Responsible for organizing Communist Youth League activities.
  - \* Holding lectures for Communist Youth League members.
- 3.Volunteer Service Team, main member  
*Zhongnan University of Economics and Law*

Sept.2022- Jun.2023  
*Wuhan, Hubei, China*

- \* Responsible for organizing the activity about volunteer tutoring for pupils.
  - \* Volunteering in the community for olds and children.
- 4.Communist Youth League Organization Department, Deputy Secretary  
*The Middle School Attached to Northwestern Polytechnical University*

Sept.2019- Jun. 2022  
*Xi'an, Shaanxi, China*

- \* Carry out daily Communist Youth League activities.
  - \* Recruit new members of the Communist Youth League.

Skills

- \* **Tools:** Stata, MATLAB, LaTeX, Git, Python
- \* **Languages Spoken:** Chinese (native), English (fluent)