

# HAO LI

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## PROFESSIONAL SUMMARY

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Ph.D. candidate in Economics (Purdue University) specializing in Public and Health Economics with strong quantitative and data analysis skills. Experienced in causal inference methods, large-scale microdata analysis, and statistical programming. Proven ability to translate complex empirical findings into actionable insights.

## EDUCATION

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**Ph.D. in Economics (Expected 2027)** | Purdue University, West Lafayette, IN *2022 – Present*  
**M.S. in Economics** | Purdue University, West Lafayette, IN *2023*  
**Exchange Student – Marketing** | ESCE, Paris, France *2020*  
**B.S. in Insurance (Actuarial Science)** | Shandong University of Finance and Economics, China *2018*

## TECHNICAL SKILLS

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**Programming & Tools:** Python, Stata, MATLAB, SQL  
**Econometric & Statistical Methods:** Life cycle model, Regression Discontinuity Design (RDD/Fuzzy RD), Regression Kink Design (RKD), Difference-in-Differences (DID/DDD), Instrumental Variables (IV/2SLS), Panel Data Models, Causal Inference, Machine Learning (regression, classification, clustering), Welfare model  
**Data & Surveys:** Health and Retirement Study (HRS), Survey of Income and Program Participation (SIPP), Current Population Survey (CPS), Consumer Expenditure Survey (CES), Human Mortality Database (HMD); Experience handling large longitudinal microdata (> 5 millions)  
**Domain Expertise:** Public Economics, Health Economics, Insurance & Actuarial Science

## RESEARCH & TEACHING EXPERIENCE

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### Research

**Graduate Research Assistant** | Purdue University *2022 – Present*

- Collected, cleaned, and analyzed diverse large-scale datasets across multiple projects using Python, MATLAB, and Stata, including: historical bilateral trade records (1925–1955); firm-level return-to-office (RTO) policy data; geolocation and Wi-Fi traffic data tracking consumer behavior; housing transaction records; and drug utilization datasets.
- Applied causal inference methods to identify program effects on firms, labor, health, and economic outcomes; built fully reproducible pipelines with publication-quality visualizations, robustness checks, and placebo tests.
- Merged and harmonized data from heterogeneous sources (survey microdata, administrative records, web-scraped behavioral data) to construct analysis-ready datasets.

### Teaching & Instruction

**Teaching Assistant – Econometrics (ECON 674, MATLAB)** | Purdue University *Fall 2025*

- Led MATLAB lab sessions on time-series modeling, OLS, and Monte Carlo simulation for graduate students.

**Teaching Assistant – Health Economics (ECON 537) & Others** | Purdue University *2022 - 2024*

- Supported instruction across Intermediate Microeconomics, Macroeconomics, Health Economics, and Real Estate Fundamentals; graded assignments and held office hours & review sections.

## INDUSTRY EXPERIENCE

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**Financial Assistant Intern** | Beijing Bank *Jun 2021 – Sep 2021*

- Advised clients on investment strategies and portfolio management; prepared customized financial plans aligned with individual risk profiles.
- Presented portfolio performance analyses and market outlook summaries to senior advisors and clients, supporting informed investment decision-making.
- Collaborated on client outreach initiatives, improving retention through targeted communication strategies.

- Supported corporate clients with compliance filings (trademark registration, tax filing, business registration) and liaised with regulatory agencies to resolve documentation issues.
- Summarized compliance findings and filing status updates for client-facing teams, enabling timely resolution of outstanding regulatory requirements.

## RESEARCH & PUBLICATIONS

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### **The Family Spillovers of Social Security: Evidence from Survivors Benefit Eligibility** (*Working Paper*)

- Applied Regression Kink Design (RKD) with SIPP microdata to examine whether Social Security survivor benefit eligibility at age 60 reshapes intergenerational financial transfers between widowed parents and their adult children, and downstream effects on children's labor supply. Data wrangling and analysis conducted in Python.

### **When Income Support Hurts and Helps: Health Effects of Survivors Benefits** (*Working Paper*)

- Used Fuzzy RD at the age-60 Social Security eligibility threshold and HRS panel data (1998–2018) to identify causal effects on health outcomes; found eligibility worsens short-run self-reported health and raises diabetes rates (driven by financially dependent widows), while a 1965 reform expanding eligibility improved survival to age 70 with mortality declines in cardiovascular disease, tuberculosis, and suicide. Analysis conducted in Stata and Python.

### **Effects of the ACA's Dependent Coverage Provision on Young Adults** (*Working Paper*)

- Used DID and triple-difference framework on CPS microdata (2008–2013) to estimate causal effects of ACA dependent coverage on insurance uptake and labor-market outcomes; produced parallel-trend graphs and subgroup analyses in Stata.

### **Emerging Markets' Response to COVID-19: Insights from Arbitrage Strategies**

*Published in Heliyon, Vol. 10 (2024)*

### **Study on Influencing Factors of Commercial Health Insurance Demand in China**

*Published in Business, Economics and Management Innovation (2021)*

### **Optimal Portfolio of Basic Pension Insurance Funds in China**

*Published in Advances in Social Science, Education and Humanities Research, Vol. 451 (2019)*

## PROFESSIONAL ACTIVITIES

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- **Participant**, Amazon Web Service: Generative AI with Large Language Models, May 2026
- **Participant**, Stanford Course: Machine Learning Specialization, April 2026
- **Participant**, Workshop: Mechanism Design, Social Choice, and AI, April 2026
- **Participant**, SEA Conference, November 2025
- **Participant**, National Tax Association Annual Conference, November 2025
- **Organizer**, Labor Lunch, Economics Department, Purdue University, 2024 – coordinated weekly research seminars
- **Participant**, ASHEcon Conference, June 2023
- **Participant**, United Nations Children's Fund Raising Activity, December 2020

## AWARDS & RECOGNITION

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- Economics Research Micro-Grant, 2025
- Distinguished Teaching Award, 2025
- State Outstanding Graduates Award (top 3 of 200), 2020
- First Prize, Product Design and Company Operations, Paris 2020.
- First-class Scholarship, Shandong University of Finance and Economics, 2017 & 2019
- Outstanding Graduate Student Cadres, November 2019
- National Third Place, Graduate Risk Management Scheme Design Competition, 9th Risk Management & Actuarial Forum, 2018
- First Prize, Ergo-life Health Insurance Products Design Contest, 2018