Huilin Zhang

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Education

Purdue University, PhD, MS in Economics   2019 – Expected 2025
- **Course:** Applied Microeconometrics, Time Series, Industrial Organization, Labor Economics, International Trade.

Sun Yat-sen University, MA in Economics   2017 – 2019
Wuhan University, BA in Economics   2013 – 2017

Research Projects

The Productivity Externality of Working From Home: Welfare and Policy Implication
- Applied the generalized method of moments (GMM) and utilized recovered model residuals serving as instrumental variables to estimate productivity spillover effects from onsite and remote work.
- Developed a discrete choice model and applied it to survey data to quantify the gap between socially optimal and market equilibrium levels of onsite work, and to calculate the optimal level of subsidies.

How Globalization Changes the Level and Structure of Executive Compensation with David Hummels, Jaerim Choi, and Jakob R. Munch   Work in Progress
- Extended the principal-agent model by incorporating heterogeneous CEOs and firms to gain insights into the relationships between risk volatility, CEO ability, CEO compensation, and firm characteristics.
- Leveraged matched worker-firm panel data to study the causal relationship between globalization and CEO compensation.

The Production of Human Capital in A System of Universities with David Hummels   Work in Progress
- Developing a model that matches students with varying abilities and preferences to universities of differing qualities to examine how labor market shocks affect the number and quality of colleges and the distribution of human capital.

The Impact of Systemic Financial Risk on Macroeconomy: Based on Factor-Augmented Vector Autoregressive Models and Time-Varying Parameter Vector Autoregressive Models   Master's Thesis
- Applied Granger causality tests, factor-augmented vector autoregressive models, and impulse response functions with time series data to assess the impact of systemic financial risk on output, inflation, consumer confidence, and credit.

Work Experience

Purdue University Research/Teaching Assistant, Instructor – West Lafayette, IN   2019 – Present
- Developed Python scripts to download and process bulk data, conducted data analysis, created presentation slides to communicate findings, and collaborated with a faculty member in weekly meetings to enhance research outcomes.
- Served over 600 students across 15 courses (with class sizes ranging from 10+ to 80+) by leading recitation lectures, answering questions, designing homework, and assessing student performance. Awarded the Krannert Outstanding Teaching Certificate for achieving an average score of 4/5 on course evaluations.

China Merchants Bank Assistant Manager – Wuhan, China   Dec. 2016 – Feb. 2017
- Conducted preliminary examination for personal credit loans and approved over 70 cases for loans, with an aggregate declaration value of over $1.4 million.

National Development Bank Team leader, Student Loan Project – Wuhan, China   Oct. 2016 – Dec. 2016
- Led a team of 3 to review approximately 93,000 contracts in 15 days. Independently reviewed approximately 11,500 contracts.

Awards

Daniels School of Business Doctoral Research Funds, Purdue University	2024
Business Doctoral Student Association Research Symposium Award, Purdue University	2023
Krannert Certificate for Outstanding Teaching, Purdue University	2021
Outstanding Master's Thesis, Sun Yat-sen University	2019
First Prize Scholarship for Graduate Students, Sun Yat-sen University	2017
Outstanding Student Scholarship, Outstanding Freshman Scholarship, Wuhan University	2013-2014, 2014-2015, 2013

Presentations

2024 National Association for Business Economics Tech Economics Conference	2024
Business Doctoral Student Association Research Symposium	2023

Skills

Software: Matlab, Stata, Python, SQL, R   **Languages:** Chinese, English
Technical: Causal Inference, Structural Modeling, Machine Learning, Data Analysis