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# 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
- Developed a model that matches students with varying abilities and preferences to universities of differing qualities.
- Applied the model to analyze the impact of shocks, including technological changes and international student inflows, on the number and quality of colleges, as well as the distribution of human capital in society.

**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