

YANG PEI

WORK ADDRESS

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CONTACT DETAILS

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CITIZENSHIP
China, F1 Visa

RESEARCH FIELDS

International, Spatial, Macroeconomics and Financial Regulation

EDUCATION

Ph.D. Candidate in Economics, University of Houston	<i>Sep 2019 - Present</i>
M.A. in Economics, University of Houston	<i>2019-2021</i>
M.A. in Economics, Central University of Finance and Economics	<i>2016-2019</i>
Exchange Student in Applied Mathematics, University of Science and Technology of China	<i>2012-2013</i>
B. S. in Statistics, Anhui University	<i>2011-2015</i>

RESEARCH

Job Market Paper

“Demographics, Trade, and Growth”

Abstract: I study how changes in demographic structure lead to changes in trade patterns, and its effects on economic growth.

We start with panel regression and the VARX model. The panel regression indicates that countries with a higher proportion of working-age individuals tend to exhibit higher TFP growth rates and smaller consumption share. The VARX model captures the dynamic effects of demographic shocks, demonstrating that the impulse response function of a 1 p.p. increase in the young population share shock on TFP growth rate and capital-labor ratio growth rate is hump-shaped.

I then develop an overlapping generations (OLG) trade model that integrates the empirical findings. The theoretical framework builds on dynamic trade model from Ravikumar, Santacreu and Sposi (2019), with three key extensions. First, I integrate empirically identified age-productivity links into the model. Age-varying abilities to generate ideas become key drivers of knowledge stock accumulation. Second, I incorporate overlapping generations (OLG) features, where age-varying saving behavior influences capital accumulation. Third, By distinguish between capital-intensive and labor-intensive sectors, the model captures the forces of both Heckscher-Ohlin and Ricardian comparative advantages. Utilizing the calibrated model, I can quantitatively demonstrate how demographics have influenced trade and growth in China historically and conduct model-based projections for the future.

Working Paper

“The Decline in China’s Trade Share of GDP: A Structural Accounting”

“Accounting for China’s Province-Level Border Effects (joint with Jun Nie)”

Work-in-Progress

“Internal trade and optimal external tariff (joint with Kei-Mu Yi)”

“China’s VAT Reforms, Distortions, and Intranational Trade”

“Expectation Sentiments and Consumption Fluctuations in the Time of COVID” (joint with Kunyao Xu)

“The Effects of Macro-prudential Policies on Bank Efficiency and Profitability” (joint with Alice Ouyang)

Conference Presentations

“Demographics, Trade, and Growth”

UT-Austin, Texas A&M, U. of Houston Macro Job Candidates Workshop, Federal Reserve Bank of Dallas, TX 2023

“The Decline in China’s Trade Share of GDP: A Structural Accounting”

Chinese Economic Association (CEA) Conference, Hangzhou, Zhejiang 2024

Midwest International Trade Conference, Indianapolis, IN 2023

Midwest Macroeconomics Conference, Lubbock, TX 2023

“The Effects of Macro-prudential Policies on Bank Efficiency and Profitability”

Western Economic Association 15th International Conference, Tokyo 2019

Other research

“Electricity analysis and targeted optimization of the rectangular micro-strip antenna”, Project Leader, *National College Students’ Innovation and Entrepreneurship Foundation of Ministry of Education of China* 2013-2014

WORKING EXPERIENCE

Research Assistant	University of Houston, Professor Kei-Mu Yi	<i>Summer 2024; 2023; 2022; 2021</i>
Research Assistant	University of Houston, Professor Steven G. Craig	<i>Fall 2022</i>
Research Assistant	National Taxation Bureau of China	<i>Fall 2019 - Spring 2020</i>

TEACHING EXPERIENCE

Instructor

Principle of Microeconomics (Undergrad), UH. *Fall 2022; Spring 2023; Fall 2023*

Econometrics I (Ph.D.), Homework Instructor, Professor Nathan Canen, UH. *Spring 2021*

Quantitative Methods (Ph.D.), Homework Instructor, Professor Vikram Maheshri, UH. *Fall 2020*

Teaching Assistant

International Trade (Undergrad), Professor Kei-mu Yi, UH. *Summer 2024*

International Monetary Economics (Undergrad), Professor Ruxandra Prodan Boul, UH. *Fall 2021*

Money, Banking Financial Markets (Undergrad), Professor Polly Hardee, UH. *spring 2020*

Macroeconomic Principles (Undergrad), Professor Polly Hardee, UH. *Fall 2019*

HONORS AND GRANTS

Honors

National College Students Innovation and Entrepreneurship Competition, Third Prize, Beijing Municipal Education Commission 2017

The Prize of School Outstanding Student Leader, Central University of Finance and Economics 2017

National College Students Mathematics Competition, Third Prize, Chinese Mathematical Society 2013

Grants

University of Houston Travel Fund, 2023

University of Houston Graduate Student Fellowship, 2019 - 2024

Academic Exchange Travel Fund, Central University of Finance and Economics (CUFE) 2019

Postgraduate academic scholarship for excellent students, CUFE 2016-2018

Wendian Scholarship, Anhui University 2012, 2013, 2014

COMPUTER SKILLS

Programming: C/C++, MATLAB, ArcGIS, Juila, Python

Statistical: Stata, R, Excel

LANGUAGES

Chinese (Native), English (Fluent)

REFERENCES

Dr. Kei-Mu Yi (Committee Chair)

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Dr. Daniel Yi Xu(External Committee)

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