JUNNAN ZHANG

junnanzhang@xmu.edu.cn ⋄ www.junnanzhang.com

ACADEMIC APPOINTMENTS

Xiamen University, School of Economics
Associate Professor — Aug 2024–Present
Assistant Professor — Sep 2021–Aug 2024

EDUCATION

Australian National University — Jan 2017–Aug 2021
PhD in Economics
Thesis: "Topics in Dynamic Programming"

Graduate School of Chinese Academy of Social Sciences — 2013–2016
M.M. in Technical Economics and Management

Peking University — 2009–2013
B.S. in Physics

RESEARCH INTERESTS

Computational and mathematical economics, with applications to dynamic programming, asset pricing, and production networks.

PEER-REVIEWED PUBLICATIONS

"Unique Solutions to Power-Transformed Affine Systems." John Stachurski, Ole Wilms, and Junnan Zhang. 2025. *Journal of Mathematical Analysis and Applications* 550: 129515.

"Asset Pricing with Time Preference Shocks: Existence and Uniqueness." John Stachurski, Ole Wilms, and Junnan Zhang. 2024. *Journal of Economic Theory* 216: 105781.

"Coase Meets Bellman: Dynamic Programming for Production Networks." Tomoo Kikuchi, Kazuo Nishimura, John Stachurski, and Junnan Zhang. 2021. *Journal of Economic Theory* 196: 105287.

"Dynamic Programming with State-Dependent Discounting." John Stachurski and Junnan Zhang. 2021. *Journal of Economic Theory* 192: 105190.

"Equilibrium in Production Chains with Multiple Upstream Partners." Meng Yu and Junnan Zhang. 2019. *Journal of Mathematical Economics* 83: 1–10.

"The Substitution and Pervasiveness Effects of ICT on China's Economic Growth." Yuezhou Cai and Junnan Zhang. 2015. 经济研究/*Economic Research Journal* 50 (12): 100–114. (In Chinese with English abstract.)

WORKING PAPERS

"Isomorphic Dynamic Programs." John Stachurski and Junnan Zhang. 2026. Working paper, arXiv:2605.22076.

"A Simple Model of Average Inflation Targeting." Laurence M. Ball and Junnan Zhang. 2024. NBER Working Paper No. 33160.

RESEARCH GRANTS

"Solving High-Dimensional Asset Pricing Model: Theory and Computation Based on Monte Carlo."
National Natural Science Foundation of China
Role: Principal Investigator — Jan 2024–Dec 2026

"Endogenous Economic Policy and Economic Development: Theory and Quantitative Analysis."
National Natural Science Foundation of China
Role: Participant — Jan 2026–Dec 2030

TEACHING EXPERIENCE

Xiamen University

Dynamic Optimization — 2025–2026
Undergraduate honors

Mathematical Economics — 2021–2026
Undergraduate and graduate

Academic Writing — 2022–2023
Graduate

PROFESSIONAL SERVICE

Refereeing
Economic Theory; *Journal of Economic Dynamics and Control*; *Economic Theory Bulletin*; *Economic Modelling*.

HONORS AND AWARDS

Australian Government Research Training Program Scholarships
Australian National University — 2017–2020

Young Scholar Innovation Award on Information Economics in China (2011–2015) — 2016

TECHNICAL SKILLS

Proficient in Python, R, LaTeX, and Linux.
Familiar with Julia, MATLAB, and Stata.