

JIE DUAN

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🏛️ Institution: Department of Economics, National University of Singapore

EDUCATION

Ph.D. Economics, National University of Singapore August 2020 - June 2025 (Expected)

MSc. Economics, London School of Economics and Political Science August 2018 - May 2019

B.A. Economics, Central University of Finance and Economics September 2014 - June 2018

RESEARCH FIELDS

Primary: Macro Labor

Secondary: International Trade

PUBLICATIONS

The Underemployment Trap (with Paul Jackson), *Accept at Journal of Monetary Economics*, 2024

Abstract: Many college graduates are underemployed, i.e., work in occupations that do not require a college degree. We document that underemployed workers are less likely to transition to a college occupation the longer they are underemployed and that longer underemployment histories are associated with lower wages in college occupations. To explain these findings, we develop a directed search model with unobserved heterogeneity, occupation-specific human capital, and on the job search. Workers are uncertain about their suitability for college jobs and learn through search. Underemployment is generated by search and information frictions, as workers with a low expected job-finding probability in college occupations self-select into underemployment. Once underemployed, workers' college occupation-specific human capital decays. A quantitative decomposition shows that unobserved heterogeneity explains most of the duration dependence in underemployment, and that information frictions play a significant role in both the existence of underemployment and the resulting duration dependence.

Internet Linkage and International Trade (with Zengxi Hu), *Accept at The World Economy*, 2024

Abstract: Extensive research has studied the effect of the Internet on trade, yet little is known about its role in trade facilitation through risk alleviation. This research investigates the facilitation of Internet linkage on export, particularly through the novel channel of risk alleviation. Theoretically, this paper introduces a gravity model augmented with export risk to establish the stimulus of Internet linkage on exports. Empirically, this paper uses inter-domain hyperlinks as a proxy for Internet linkage in 2009, uncovering a statistically significant positive impact of Internet linkage on exports. Notably, there is a 27.8% increase in exports in reaction to a doubling of the Internet linkage intensity. By employing various techniques, we meticulously address potential endogeneity issues and substantiate the risk-alleviation mechanism at both the country and product levels. Particularly, we find that exports to riskier countries and of riskier products benefit more from the Internet linkage. This study sheds new light on the novel channel through which the Internet promotes exports, enriching the existing literature in this field.

(SELECTED) WORK IN PROGRESS

The Pro-cyclicality of Wage Losses from Skill Mismatch

On the Unemployment-Education Gap, with Paul Jackson (NUS) and Lichen Zhang (HKU)

TEACHING AND RESEARCH ASSISTANCE

Teaching Assistant, Department of Economics, National University of Singapore

EC6102 Advanced Macroeconomics Theory (Ph.D. Course)

Spring 2023, Spring 2022

EC5102 Macroeconomics Theory (Graduate Course)

Fall 2022

Exam Grader, Department of Economics, National University of Singapore

EC2303 Foundations for Econometrics (Undergraduate Course) Fall 2021
EC2101 Microeconomic Analysis I (Undergraduate Course) Fall 2021

Research Assistance, Department of Economics, National University of Singapore

Research Assistant for Dr. Paul Jackson

January 2023 - April 2023

TALKS AND CONFERENCES

2022: Asian Econometric Society Meeting 2022 (Virtual)

2023: Asian Econometric Society Meeting 2023, Beijing; Asian Econometric Society Meeting 2023, Singapore; Econometric Society Australasian Meeting, Sydney; NUS Macro Brownbag; OzMac, Melbourne

2024: Southwest University of Finance and Economics; 7th ICCDS (SJTU); Asian Econometric Society Meeting 2024 (ZJU); China Labor Economists Forum (SUFE); 2024 Search and Matching Workshop in the Asia-Pacific (NUS, Discussant); Shanghai University of Finance and Economics (Scheduled); Zhejiang University (Scheduled)

SERVICE

Coordinator, NUS Macro Workshop 2024

AWARDS AND SCHOLARSHIPS

Department Scholarship, NUS 2025
Research Incentive Award, NUS Econ Department 2023
Conference Funding, NUS Econ Department 2023
Conference Funding For Graduate Students (SGD2,000), NUS 2023
Research Scholarship, NUS 2020 - 2024
Chinese Government Scholarship (GBP13,200), CSC 2018 - 2019
Outstanding Undergraduate Graduate, CUFE 2018
Overseas Education Scholarship (RMB50,000), CUFE 2018
Premier Comprehensive Excellence Scholarship (Top 4%), CUFE 2015, 2016, 2017

MISCELLANEOUS

Programming: Stata, Matlab, Mathematica, \LaTeX

Language: Mandarin (native), English (proficient)

Personal: Born in 1996, female, Chinese

Last updated: July 2024