

# YUJIE ZHANG

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## RESEARCH INTERESTS

Environmental Economics, Economics of Education, Health Economics

## EDUCATION

Ph.D. in Economics, University of Houston, TX, US, 2020 - present

M.A. in Economics and Finance, Hanyang University, Seoul, Korea, 2016 - 2018

B.E. in Ocean and Naval Engineering, Tianjin University, Tianjin, China, 2012 - 2016

## WORKING PAPERS AND WORK IN PROGRESS

**"Are Natural Disasters Disastrous for Learning? Evidence from Seven Asian Countries"**, with Jere Behrman, Emily Hannum, Minhaj Mahmud, and Fan Wang [\[Draft\]](#) [\[Slides\]](#) [Under Review](#)

**Summary:** We estimate natural-disaster impacts on children's school enrollments and math skills and test for impact heterogeneities with respect to age and gender by linking survey data on children aged 5 to 17 to time- and geo-coded disaster variables. We find significant negative effects of early life natural-disaster exposures on enrollments and math skills and the effects differ across genders, ages, and regions.

**Presentations:** ADBI Conference on Increasing the Resilience of Education Systems in Asia and the Pacific; PDRI-DevLab Workshop; Penn-Houston Climate, Environment, and Child Development Workshop; SWUFE School of Economics Workshop; CIES 2024; PAA 2024; PAS 2024; SEHO 2024; AMES 2024 China; AEDC 2024

**Data:** (1) [UNICEF Multiple Indicator Cluster Surveys \(MICS\)](#); (2) [EM-DAT Disaster Database](#)

**"The Long-Term Human Capital Consequences of Exposures to Natural Disasters: Evidence from India"** [\[Draft\]](#)

**Summary:** Linking over 500 natural disasters in India with panel survey data, I construct a sample of 71,000 individuals in adolescence and adulthood, with natural disaster exposure trajectories in early life. Exploiting geographical and temporal variations in the exposures, the study indicates that early-life exposures to natural disasters leads to lower educational attainment, higher prevalence of chronic health conditions, and reduces labor force participation in general and monthly or annually paid employment.

**Presentations:** [UH Brown Bag Seminar](#)

**Data:** (1) [India Human Development Survey \(IHDS\)](#); (2) [India Census](#)

**"The Effect of Children Gender on Younger Siblings' Health Outcomes"**

**Summary:** I estimate the effects of children's gender structure in two-child families on the health outcomes of younger siblings from various developing countries, and discover that different gender compositions significantly affect younger siblings' mortality rates, with second-born daughters benefiting the most in households with both a son and a daughter.

**Data:** [Demographic and Health Surveys \(DHS\)](#)

## PUBLICATIONS

**"News-driven Business Cycles: Evidence from Investors' Expectations of Future Stock Market Returns"**, with Deokwoo Nam, *Journal of Economic Research*, 27.1 (2022): 1-22. [\[Download\]](#)

## RESEARCH EXPERIENCE

**Consultant**, [Asian Development Bank](#), Jul 2024 - present

**Project:** Strengthening Policies on Climate Change in Asia and the Pacific

**Abstract:** (1) Identify heat hot spots at both national and local levels (cities and metropolitan areas) in selected Asian countries. (2) Contribute new evidence on the health impacts of heat and quantify the economic costs of climate change in terms of physical health and human capital.

**Data:** (1) [ERA5-HEAT temperature data](#); (2) [Satellite-derived PM2.5 data](#)

**Doctorate Researcher**, [PIRE Project](#), Jan 2023 - present

**Investigators:** Jere Behrman, Emily Hannum, and Fan Wang

**Abstract:** [Climate risk, pollution, and childhood inequalities in low- and middle-income countries](#)

**Partner:** University of Pennsylvania, University of Houston, Asian Development Bank, Inter-American Development Bank, Regional Institute for Population Studies in Ghana, UNICEF, and World Bank

**Graduate Researcher**, [Institute for Research on Women, Gender and Sexuality](#), Jun 2022 - Jun 2023

**Summary:** (1) Census Household Pulse Survey analysis: Track households' experience with hardship and recovery from the Pandemic in Houston/Harris County and how it differs by gender, sexual orientation, and household income level. (2) LGBTQ+ support project.

**Data:** (1) [Census Household Pulse Survey](#); (2) Original data collected from [Montrose Center](#)

**Research Assistant**, Prof. Elaine M. Liu, University of Houston, Feb 2022

**Summary:** Analyze data of car accident mortality related to alcohol use and liver disease mortality and morbidity at the county-level over 15 years.

**Data:** (1) [Fatality Analysis Reporting System \(FARS\) data from National Highway Traffic Safety Administration \(NHTSA\)](#); (2) [National Health Interview Survey \(NHIS\)](#); (3) [Mortality Multiple Cause Files](#); (4) [Multiple Cause of Death Data on CDC WONDER](#); (5) [NBER Mortality Data](#)

**Research Assistant**, Prof. Yuyu Chen, Peking University, Nov - Dec 2020

**Summary:** Complete data collection, collation, and cleaning for over 200 local officials from prefecture-level cities in the provinces of Guangdong, Shandong, Shanxi, and Neimenggu, for project on local officials and economic development.

## TEACHING EXPERIENCE

**Lecturer**, University of Houston, Spring 2024

**Course:** Principles of Microeconomics (Undergraduate Level)

**Summary:** 80+ enrolled; [\[Evaluation\]](#); [\[Syllabus\]](#)

**Lecturer**, Ph.D. Math Camp, University of Houston, Summer 2021, Summer 2022, Summer 2023

**Teaching Assistant**, Prof. Nathan J. Canen, University of Houston, Spring 2022

**Course:** Econometrics I (**Ph.D. Level**)

**Summary:** Hold TA session for Ph.D. students in Economics and Business school every week.

**Teaching Assistant**, Prof. Janet E. Kohlhasse, University of Houston, Fall 2021

**Course:** Microeconomics I (**Ph.D. Level**)

**Summary:** Grade homework and hold TA session every week; Evaluation: 5/5 regarding the teaching assistant was receptive to questions and 4.9/5 regarding the teaching assistant was available for assistance to students (department average was 4/5).

**Teaching Assistant**, Prof. Eleanor Jawon Choi, Hanyang University, Mar 2017 - Jul 2018

**Courses:** Introductory Mathematical Economics, Econometrics, Empirical Methods in Applied Microeconomics, Career Development, and Applied Econometrics (**Graduate Level**)

**Summary:** Graded problem sets and exams, and hosted office hours for more than 150 students each semester. Assisted professor with course materials, checking attendance of students, monitoring exams, managing records and the statistics of students' performance.

## WORKING EXPERIENCE

**Full-time Client Manager**, Bank of Communications, Jiangsu, China, Aug 2018 - Sep 2019

Provided investment advice for clients regarding fixed term deposit, national debt, bond, foreign exchange investment, and insurance.

Collected customer feedback and supported administrative work with local regulations and government rules about finance market.

Worked as the vice organizer for Suzhou Gusu branch in the competition and win "four-star-best-service bank branch" awarded by China Banking Association.

**Intern**, China Construction Bank, Sichuan, China, Jun - Aug 2017

Analyzed housing loans and mortgage applications and participated in post-loan supervision.

**Intern**, Hudong-Zhonghua Shipbuilding (Group) Co., Ltd., Shanghai, China, Jun - Aug 2015

Gained a perceptual cognition and an in-depth study about the ship construction and naval construction including design, processing, segmentation, block carry, dock carry, ship launching, mooring, docking painting and trial trip.

**Visiting Intern**, Naval Factory 702, Shanghai, China, Jun 2015

Learned plants layout and operation management of Chinese People's Liberation Army Navy.

**Visiting Intern**, Tianjin Xingang Port, Tianjin Port Museum, Maritime Safety Administration of China, Tianjin, China, Sep 2014

Visited these representative organizations and learned from detailed introduction of project leaders to know the history, development, and operation of Tianjin Port.

## AWARDS, FELLOWSHIPS, AND SERVICES

**Coordinator**; [UH Econ Student Brown Bag Seminar](#); University of Houston; Fall 2023, Spring 2024

Graduate Fellowship; University of Houston; 2020 - present

Teaching Assistantship; Hanyang University; Mar 2017 - Jul 2018

TOPIK Scholarship; Hanyang University; Dec 2017, Mar 2018

## SKILLS

Languages: Mandarin (Native), English (Fluent), Korean (Intermediate)

Computer Skills: Python, Stata,  $\text{\LaTeX}$ , R, Matlab

Hobbies: Swimming, Calligraphy, Piano