

Xuechao (Jane) Qian

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Citizenship and Visa Status

China (F-1 visa)

Education

Ph.D. Economics, The Ohio State University, 2022 (expected)
Dissertation: "Short-term and Long-term Impacts of Childhood Exposures"
Committee: Prof. Bruce A. Weinberg (chair), Prof. Kurt J. Lavetti, Prof. Meta Brown
M.A. Economics, The Ohio State University, 2017
Master of Economics, The University of Hong Kong, 2014
Bachelor of Economics, with Honors, Southwestern University of Finance and Economics, 2013

Teaching and Research Fields

Primary fields: Labor Economics, Health Economics
Secondary fields: Public Economics, Innovation, Economic History

Research Papers

"Pandemic Babies: The Effects of Medical Procedure Delays on Infant and Maternal Health" **[Job Market Paper]**

This paper studies the extent to which delaying or skipping medical care affects infant and maternal health, using medical procedure delay executive orders issued by more than thirty US states at the beginning of the COVID-19 pandemic and a nationwide large claims dataset. Fuzzy RD estimates suggest that infants born after the orders are issued are more likely to experience postponed emergency room or urgent care visits, miss immunizations, have health issues related to the perinatal period, and show delayed physiological development, particularly among those less than four months old. Moreover, difference-in-difference results show delayed medical care threatens infant health through maternal health. Newborns delivered by women with pregnancy exposure to procedure delay orders are more likely to be low birth weight, and women are more likely to develop pregnancy-related health problems after procedure delay orders.

"Long-term Impacts of Medical Education Reform on Local Children: Evidence from the Area Health Education Centers Program" **[Under Review]**

This paper examines the long-term impacts of the Area Health Education Centers (AHEC) program that promotes medical education and training to local communities. Using an event study strategy, I find the AHEC program increases local healthcare workforce. I show cohorts with childhood exposure to the AHEC program are less likely to be overweight and develop health limitations, report better subjective health, are less depressed, and consume fewer alcohol drinks and cigarettes than those without any childhood exposure to a local AHEC. Furthermore, these cohorts are more likely to remain enrolled in school after 16 and pursue a higher education degree.

"Long-term Effects of Childhood Exposure to Persecution: Human Capital and Marriage Market Outcomes" **[Under Review]**

This paper investigates the impacts of early life exposure to persecution on human capital formation and marriage market outcomes and analyzes how such impacts depend on the timing of the exposure

over early life. By utilizing the "class struggle" period of China in the form of persecuting landlords, capitalists, intellectuals, etc., I show that persecution survivors with longer early childhood exposure to persecution complete less formal schooling, have worse cognitive skills, and earn lower incomes in the long run. Furthermore, they are more likely to marry people from classes once favored by the regime but with poorer human capital outcomes.

"Dissertators with Distantly Related Foci Face Divergent Near-Term Outcomes" (with Andrew S. Hanks, Kevin M. Kniffin, Bo Wang, and Bruce A. Weinberg; NBER WP #27825) [Under Review]

Institutional leaders have long championed interdisciplinary research; however, researchers have paid relatively little attention to the people responding to such calls and their subsequent career outcomes. With the benefit of two large datasets spanning from 1986 through 2016, we show that interdisciplinary dissertations have become consistently more common in recent years as institutional leaders have highlighted the value of boundary-spanning research for solving important and emergent problems. With the benefit of survey data from a near-complete population of all dissertators in the US starting in 2001 through 2016, we observe a consistent upward trend in interdisciplinary dissertations. Unfortunately, we show that these interdisciplinary dissertators have experienced a comparably persistent penalty when considering salaries for their first year after earning the PhD. We also show that among interdisciplinary dissertators, individuals in lower-paying fields tend to earn more when choosing distantly related topic-combinations whereas researchers in higher-paying fields tend to be most rewarded for staying within relatively narrow disciplinary silos.

"A Nation of Two Tales: The Dual Intergenerational Economic Transmission in Rural and Urban China" [Under Review]

The novelty of this paper is to comparatively study the intergenerational economic mobility in rural and urban China through an exploration of multiple intergenerational transmission mechanisms. Comparing rural and urban households in China, this paper finds lower intergenerational economic mobility in urban areas over the past quarter century (1989 to 2015). Furthermore, using the predicted community level time-invariant measures as instruments, the 2SLS estimates show that parental human capital has a bigger impact on child income in rural than urban China, while parental nonhuman capital goods, such as household wealth and social spending, are relatively stronger intergenerational economic transmission mechanisms within the urban households than the rural ones. This paper casts light on the heterogeneous intergenerational economic transmission patterns in China's dual society under the Rural-Urban Household Registration System. Moreover, the existing rural-urban difference of intergenerational economic transmission does not diminish with internal migration.

"Medical Practice Shutdowns and Healthcare Utilization: Evidence from the COVID-19 Pandemic" (with Rebecca McKibbin)

This paper studies the impacts of the COVID-19 pandemic on office-based physician practices and the further effects on patient healthcare utilization. We use a nationwide claims dataset to investigate all types of claims from January 2018 to January 2021. An event study design shows that physician practices are negatively affected by the COVID-19 pandemic, with fewer patient visits, lower revenues, and higher probabilities of permanent shutdowns among these practices after Stay-at-home orders are issued. Moreover, the impact of physician practice closures was disparate, leading patients who previously used physician practice services more frequently to visit hospitals and ED and pay higher costs per service if they switch to other surviving physician practices. Heterogeneity analysis shows that practices run mainly by female doctors and those located in ZIP code areas with higher minority population shares and lower per capita incomes are disproportionately affected during the COVID-19 pandemic.

"Becoming a Researcher: Evidence from Broadening Access to PhD Training in the US" (with Francisca Antman, Kirk Doran, and Bruce A. Weinberg)

The United States rose to become a global leader in scientific research in the early 20th Century. Using comprehensive data matching the universe of ProQuest PhD recipients to the full count decennial US

Censuses (1850-1940), this paper investigates how access to PhD training facilitated research manpower in the US during this critical period. Evidence from our event study design suggests that opening one more PhD program during the peak ages of graduate study induces about 2 more PhD recipients per 1 million people born in that state. Furthermore, the expansion of PhD programs improved access for minority, immigrant, and lower socioeconomic status families. We also find that the location and field of the PhD program openings help to determine the institution and research area of doctoral recipients.

“First Foot Forward: A Two-Step Econometric Method for Estimating the Impacts of Multiple Identities” (with Andrew S. Hanks, Kevin M. Kniffin, Bo Wang, and Bruce A. Weinberg)

Marketing and strategy researchers have often studied how firms navigate multiple identities but less attention has been paid to understanding how individuals do so. As a model domain to examine this question, we focus on interdisciplinary dissertators in the United States since there are clear uptrends in dissertators engaging multiple identities and unclear trends in their outcomes. We introduce a novel two-step econometric approach to characterize salaries of interdisciplinary dissertators as functions of the identities (academic fields) they acquire as graduate students. In our approach, the key is to treat people with multiple identities (academic fields) as linear or non-linear combinations of their separate identities. To do this, we estimate a first-stage regression, where we regress earnings for monodisciplinarians on field dummies and respondent characteristics. After capturing the estimated discipline effects, we then regress earnings for interdisciplinarians on combinations of these estimated discipline effects. Our estimates robustly reject the hypothesis that interdisciplinarians receive a wage premium. We also find evidence that the market prefers to compensate researchers by their primary discipline, an outcome that challenges emphases on interdisciplinarity. While our findings among interdisciplinarians point to the primary identity holding predominant importance for doctoral graduates in the United States, our two-step method provides a framework for studying the varied impacts of multiple identities across contexts.

“Robots, Demand for Skill and Inequality: Evidence from the China Employer-Employee Survey” (with Albert Park and Xiaobo Qu)

This paper examines the equilibrium effects of the most recent automation technology transition towards industrial robots in the manufacturing industry using the newly collected China Employer-Employee Survey (CEES) data. We correct the endogeneity issue by using the constructed provincial capture of nationwide robotics technology as the instrumental variable for the individual firm's use of industrial robots. The 2SLS estimates show that the use of industrial robots in manufacturing firms awards wage premiums to all types of jobs and workers, meanwhile, also reshapes the employment structure and augments wage inequality within the firm. Moreover, the heterogeneity analysis across education groups, occupation levels, and task contents suggests that the shift in the demand for skill is the mechanism, through which the industrial robots affect the labor market.

Research in Progress

“Short-term and Long-term Impacts of Childhood Exposure to Racial Injustice”

“Historical Progress in Education, Innovation, and Science in 19th and 20th Century America” (with Francisca Antman, Kirk Doran, and Bruce A. Weinberg)

“Out of the University, Into the Workforce: Early 20th Century Scientific Training and Industrial Research” (with Peter Nencka)

“Short-term and Long-term Impacts of Opening Medical Schools” (with Rebecca McKibbin and Ioanni Nicholopoulos)

Conference and Seminar Presentations

2022 Population Association of America (PAA) Annual Meeting, April, Atlanta (Presentation scheduled)

2021 APPAM Fall Research Conference, March (rescheduled from November 2021), Austin (Presentation scheduled)

Allied Social Science Associations (ASSA) Annual Meeting, January, Online (Session

- organizer, Presentation scheduled)
- 2021 Southern Economic Association (SEA) Annual Meeting, November, Houston
 Department Applied Micro Seminar, November, Columbus
 BGSU/OSU Conference on Population, October, Columbus
 Department Micro Lunch, October, Columbus
 Annual Conference of the American Society of Health Economists, June, Online
 Society of Labor Economics (SOLE) Annual Meeting, May, Online
 Population Association of America (PAA) Annual Meeting, May, Online
 Department Micro Lunch, April, Online
 Allied Social Science Associations (ASSA) Annual Meeting, January, Online (Poster Session)
- 2020 Southern Economic Association (SEA) Annual Meeting, November, Online
 APPAM Fall Research Conference, November, Online
 Department Micro Lunch, November, Online
 2020 H2D2 Research Day, March, Online (Poster Session)
 Allied Social Science Associations (ASSA) Annual Meeting, January, San Diego (Poster Session)
- 2019 Southern Economic Association (SEA) Annual Meeting, November, Fort Lauderdale
 APPAM Fall Research Conference, November, Denver
 Hong Kong University of Science and Technology IEMS Seminar, August, Hong Kong
 North American Summer Meeting of the Econometric Society, June, Seattle
 The Cliometric Society Conference, May, Columbus
 Department Micro Lunch, February, Columbus
- 2016 China Economy Seminar, March, Boston
- 2014 The International Symposium on Human Capital and the Labor Market, October, Beijing
 China Meetings of the Econometric Society (CMES), June, Xiamen
 The China Economist Society (CES) Annual Conference, June, Guangzhou
 Asian Meetings of the Econometric Society (AMES), June, Taipei
 The CES North America Conference, March, West Lafayette
- 2013 China Economic Quarterly Workshop, July, Beijing (CCER)
 The CES Annual Conference, June, Chengdu
 CEPAR-Zhejiang University Workshop in Population Aging, May, Hangzhou
- 2012 The Biennial Conference of the Hong Kong Economics Association (HKEA), December, Hong Kong
 China Economics Annual Conference, December, Jinan

Research Experience and Other Employment

Graduate Research Associate, The Ohio State University:

For Bruce A. Weinberg, Spring 2021 - present

For Bruce A. Weinberg, Spring 2019 - Spring 2020

Full-time Research Assistant, Hong Kong University of Science and Technology:

For Albert Park, June 2014 - July 2016

Professional Activities

Referee for *Eastern Economic Journal*

Vice-President, Economics Graduate Student Society, Fall 2018 - Spring 2020

Vice-President and Co-founder, Graduate Women in Economics, Spring 2019 - Fall 2021

Honors, Scholarships, and Fellowships

JMCB Research Travel Grant, 2019-2022

William Green Fund Travel Grant, 2019

Distinguished Department of Economics Fellowship, 2016
Provincial Best Graduate, 2013
China National Scholarship, 2011
HSBC Scholarship, 2010

Teaching Experience

Independent Instructor, The Ohio State University:
ECON 2001 Principles of Microeconomics, Fall 2020
Graduate Teaching Associate, The Ohio State University:
ECON 2001 Principles of Microeconomics, for Jeffrey Buser, Fall 2018
ECON 2001 Principles of Microeconomics, for Ida Mirzaie, Spring 2018
ECON 5001 Game Theory, for Jim Peck & Huanxing Yang, Fall 2017

References

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