

YIRAN HAN

(518) 364-2670 ♦ New York, NY yhan7@albany.edu

EDUCATION

Ph.D. in Economics, University at Albany - State University of New York 2020 - 2025 (Expected)
Research Fields: Health Economics, Econometrics, Financial Economics.
Coursework: Microeconomics, Macroeconomics, Econometrics, Causal Inference, Policy Evaluation, Mathematics.

M.A. of Economics, Xiamen University 2017 - 2020

B.M. of International Business, Southwestern University of Finance and Economics 2013 - 2017

RESEARCH EXPERIENCE

Projects about Cannabis/Opioid Use and Poisoning (R, ArcGIS Pro) June 2023 - Present
Researcher (work with James A Swartz), University of Illinois Chicago *Remote*

- Leveraged Medicaid and Medicare claims data and applied GIS mapping techniques to conduct a comprehensive analysis of substance use disorders, predicting the risk of opioid misuse and overdose.
- Analyzed state-level substance use disorder trends using 2018-2022 HCUP data.
- Published 2023 & 2024 Illinois Cannabis Regulation and Tax Act annual evaluation. Chicago, IL: Illinois Department of Human Services, Division of Substance Use Prevention and Recovery.

Drug Diffusion through Clinical Trial Sites (R, STATA) May 2022 - Present
First Author *Albany, NY*

- Integrated CMS Medicare Part D drug prescription data with physician affiliations and clinical trials data to analyze prescribing patterns.
- Employed fuzzy matching, propensity score matching, and stacked difference-in-differences methods to examine prescribing incentives for new drugs and their utilization consequences under varying geographical exposures.

Explaining Inter-State Variation in Disability Applications During COVID-19 (R, ArcGIS) June 2022
Albany, NY

- Published in the Bulletin on Retirement and Disability (NBER).
- Developed a spatial forecasting model to project state-level monthly disability applications, estimating what would have occurred in the absence of the pandemic.
- Examined how state-level COVID-19 case numbers and pandemic policies influenced forecasting errors.

Decomposition the Income Related Inequality of Disability (R, STATA) Nov 2021 - Jan 2023
Single Author *New York, NY*

- Examined changes in income-related inequality in disability applications over time.
- Assessed the influence of individual characteristics on various quantiles of the inequality index and decomposed the index to determine the primary factors driving application inequality.

Age-based Health Insurance Coverage Policies and Mental Health (R, STATA) July 2021 - Aug 2022
Author *Albany, NY*

- Published in the Journal of Population Economics (2024).
- Conducted a Regression Discontinuity analysis to assess the impact of age-based health insurance coverage changes (ACA and Medicare) on psychological well-being and mental health among young adults and the elderly, using Medical Expenditure Panel Survey data.

Demand for Labor During the Pandemic: the Case of China (R, STATA) Jan 2020 - June 2020
First Author of Chapter 13 *Xiamen, China*

- Extracted and cleaned text data from websites by structuring the data, applying text segmentation and stop words removal to filter unstructured content, and creating a word frequency-inverse document matrix.
- Investigated labor demand trends and characteristics in China following the COVID-19 pandemic.

HONORS AND AWARDS

2024 Karen R. Hitchcock New Frontiers Fund Award

2023 Honorable mention of Pong S. Lee Award

2020-2023, Graduate Assistantship, University at Albany.

2016, Honorable Mention team, Mathematical Contest in Modeling.

Certifications Chartered Financial Analyst (CFA) Level III Passed.

Programs and Statistics Software STATA; R; MATLAB; LaTeX; GIS; MS-Office; EViews; SPSS; Python