

# Hualong (Hetty) Diao

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## ABOUT ME

- Ph.D. in Economics (expected May 2025) with expertise in statistical modeling, advanced econometrics (time series, survival analysis), and quantitative methods (Monte Carlo simulation), specializing in causal inference and structural estimation.
- Proficient in R, Python, Stata, MATLAB, Excel, Fortran, and Microsoft Office.
- Experienced in large data collection, processing, harmonization, and analysis, delivering through data visualization.
- Languages: English (Fluent), Mandarin (Native), Cantonese (Native), French (Beginner).
- Professional and research interests include applied micro econometrics and health economics.

## WORK EXPERIENCE

**The World Bank**, *Consultant at Chief Economist Office for the Infrastructure Vice-Presidency* Washington, D.C., U.S. 2023

- Managed, cleaned, and **harmonized multiple large datasets using R and Stata**, ensuring accuracy and readiness for analysis.
- Applied **econometric models** to estimate **causal impacts using Stata**, contributing to data-driven policy insights.
- Co-authored economic notes and World Bank blog posts; conducted comprehensive literature reviews, participated in **report writing**, effectively communicating research findings to a broad audience.
- **Successfully collaborated with a diverse group** of specialists, economists, and managers.

**Stony Brook University**, *Instructor and Teaching Assistant* Stony Brook, NY, U.S. 2019 – 2024

- Instructed Intermediate Microeconomics to 50+ students, simplifying complex concepts with **effective presentations**.
- Used **strong communication skills** to clarify theories and promote active learning.

**Boston University**, *Research Assistant at Economics Department* Boston, MA, U.S. 2018

- Processed the election data of an entire country over twenty years using **Stata programming**.

**The Nielsen Company**, *Consultant Intern at Automotive Research* Beijing, China 2017

- Led a group of six in constructing consumer questionnaires and summarized key findings to clients.
- **Drafted reports** on marketing analysis of auto loan, including **data visualizations** for clients.
- Initiated proposals for newly launched vehicles for an open tender.

**China Development Research Center of the State Council**, *Intern* Beijing, China 2016

- Collaborated on reviewing and organizing energy usage reports from provincial governments across the country.

## RESEARCH & WRITINGS

*Self-Selection in Randomized Controlled Trials and Screening Decisions: Evidence from the Screening Trial for Lung Cancer (Job Market Paper)*

- Developed and estimated a **dynamic discrete-choice model** using **Maximum Simulated Likelihood method in Fortran** to explore the impact of individual beliefs, survival expectations, and perceived screening costs on lung cancer screening decisions.
- Performed **Monte Carlo simulations** to conduct policy experiments on the effects of targeted screening policies, enhanced awareness, and technological advancements on screening uptake and health outcomes.
- Paper accepted for presentation at the Committee on the Status of Women in the Economics Profession (CSWEP) and American Society of Health Economist (ASHEcon) Mentoring Workshop.

*Prevalence of Mental Illness and Supply of Medicaid-Funded Services in New York State with Xin Lu and Prof. Steven Stern*

- **Simulated** the state-wide mental illness prevalence rate using demographic information.

*Spousal Effects: Will You Quit Smoking Because of Me? with Junyu Zhang*

- Estimated a **simultaneous equation model** with censored variables, identifying strong positive spousal effects on smoking.
- Paper accepted for presentation at the Western Economic Association International (WEAI) 2024 Annual Conference, the 2024 Annual Conference of the ASHEcon, and the Pennsylvania Economic Association 2024 Annual Conference (PEA 2024).

*Impacts of School Violence on Mental Health and Academic Outcomes for Immigrant and Native-Born Children with Junyu Zhang*

- Estimated a **simultaneous equation model** to assess the causal effects of bullying on mental health and academic performance.
- Paper accepted for presentation at the PEA 2024.

*Cybersecurity Economics in Latin America and the Caribbean. The World Bank Blog Series. (Collaborated work, forthcoming)*

- Identified Latin America to have the highest cyber incident growth rate analyzing a novel large data on disclosed cyber incident.

*Cybersecurity in Healthcare Sector. The World Bank Blog Series. (Collaborated work, forthcoming)*

- Highlighted the healthcare sector as the highest risk for cyber incidents and discussed development implications.

*Collaborated in World Bank book “[Cybersecurity Economics for Emerging Markets](#)”. (Published)*

- Provided background research, as well as infographics and visuals created in R.
- Use a Poisson model to show 75% higher likelihood of cybercrime in countries with more corruption and less political stability.

## EDUCATION

Ph.D. in Economics, Stony Brook University (Expected May 2025); M.A. in Economics, Boston University (May 2019); B.A. in Economics (with distinction), University of International Relations (May 2017).

## AWARDS & ACTIVITIES

Graduate Fellowship Award including full tuition waiver and annual stipend payments (Stony Brook University, 2019-present);

Travel Funding for Conference Presentations (Economics Department at Stony Brook University, 2024);

Graduate Student Employees Union (GSEU) Professional Development Awards.

## CERTIFICATES

Digital Health: Planning National Systems (UN/World Bank certified course completion);

Online Teaching Certificate (Center for Excellence in Learning and Teaching at Stony Brook University).

Wine & Spirit Education Trust Level I Award In Wines.