Raychel Xiao Sun

(352) 663-2140 | sunxiaoformal@gmail.com

Education

University of Florida   Aug 2020 – Expected: Aug 2025
PhD Candidate in Quantitative Methodology and International Political Economy   Gainesville, FL
- Maximum Likelihood Estimation, Multilevel Models, Bayesian Statistics, Survey Research, Mixed Methods
- Summer Institute in Computational Social Science (SICSS) July 2024

University of Michigan   Jun 2021, Aug 2024
ICPSR Summer Program in Quantitative Methods   Ann Arbor, MI
- Data Science and Text Analysis with Python, Time Series Analysis with R, Causal Inference

Boston University   Jan 2017– Jan 2019
Master of Arts in International Politics and Communication   Boston, MA
- Math Boot Camp for the Political and Social Sciences, Data Visualization, Development Economics with STATA

Hunan Normal University   Sep 2011– Jun 2015
Bachelor of Arts in Linguistics *Honors* (Minor: Communication and Media Studies)   Changsha, PRC

Work Experience

Instructor and Research Assistant   University of Florida   Gainesville, FL   Aug 2021– Present
- Developed multilevel, Bayesian, time series, multinomial, proportional hazards, logistic, random forest, sentiment, etc. models to analyze trade, labor, regime, policy text data for multiple inter-disciplinary projects using Python and R.
- Instructed Political Data Analysis and Introduction to International Relations, achieving over 97% positive feedback.

Data and Policy Analyst   Institute of Public Policy of SCUT   Guangzhou, PRC   May 2019 – Jun 2020
- Analyzed user behavior and regulatory compliance of cross-border transactions for ByteDance and Tencent.
- Led a policy research project for the Guangzhou City Incubator in technology industry.

Data Scientist Intern   Spark Blockchain Incubator   Boston, MA   Jan – Apr 2019
- Conducted data analysis using SQL to identify user behavior patterns to help engineering teams increase user retention.

Head of Data & Communication   Dream Building Service Association   Nairobi, Kenya   May 2017 – Feb 2020
- Conducted surveys, interviews, and fieldwork in Kenya to collect unstructured residential data in ghetto areas.
- Analyzed the structured data using Excel to facilitate school building projects and crowdfunding campaigns.

Publications

Unseen Inequality: The Gendered Impacts of Welfare Policies   APSA Conference   Sep 2024
- Quantified gender blindness and analyzed uneven policy consequences on different segments of population in the labor market.

Exploring the Determinants of China's Official Financing in Southeast Asia   ISA Conference   Apr 2023
- Built multilevel models to test hypotheses of trade dependency, institutional embeddedness, and dispute resolution.

Hidden Burdens: How Family Responsibilities and Job Insecurity Shape Women's Trade Protectionism   BISA   Jun 2023
- Developed multinomial Logit models to explore why women are more likely to oppose free trade across 56 countries.

Gendering the Great Resignation in the Post-COVID World   Phenomenal World & ISA Conference   Jan 2023
- Analyzed the job quitting in twelve industries and its relationships with the recovery policies in the US, UK, and China.

Assessing the Impacts of the COVID-19 Recession and the Great Recession in the US   MPSA Conference   Apr 2022
- Analyzed how race, gender, age, education, income, industry, etc. affected U.S. workers during the 'mancession' and 'she-cession.'

Skills

Python, R, SQL, STATA, Panda, NumPy, Beautiful Soup, Gensim, TensorFlow, PyTorch, Matplotlib, Seaborn, Scikit-learn

SPSS, Tableau, MySQL, Jupyter, VS Code, Git, Qualtrics, LaTeX, Overleaf, Conda, Excel