

# Ziwen (Jasmine) Jia

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## EDUCATION

**Georgetown University, McCourt School of Public Policy**

*Master of Science in Data Science for Public Policy*

**GPA:** 3.95

**University of Michigan – Ann Arbor**

*Bachelor of Science in Economics*

**Minor:** Applied Statistics

**Award:** University Honors

**Washington, DC**

*Aug 2023 - Expected May 2025*

**Ann Arbor, MI**

*Sept 2020 – Apr 2023*

## PROFESSIONAL EXPERIENCE

**Mathematica, Inc.**

**Washington D.C.**

*Part-time Data Scientist*

*August 2024 - Present*

- Conducted network analysis of health insurance claims data using centrality metrics and modularity optimization algorithms to uncover structural relationships between payers and providers; transformed Snowflake data into a graph database on AWS Neptune for advanced connectivity analysis.
- Design and implement a R package with Docker integration to streamline computational model execution on AWS SageMaker, the final product was adopted company-wide, standardizing workflows and improving efficiency across all users
- Utilize Truveta Prose language to aggregate patient demographic and clinical data into Power BI dashboards, enhancing maternal health research by identifying and analyzing trends in maternal morbidity and health disparities

**Massive Data Institute**

**Washington D.C.**

*Research Assistant*

*August 2024 - Present*

- Engineered and merged complex datasets on crop production, migrant workers, and NHL (non-Hodgkin's lymphoma) incidence; applied advanced GIS techniques in R to visualize glyphosate exposure patterns on county level data in the U.S., supporting data-driven litigation strategies for the Lawyer's Committee.
- Conducted spatial regression analysis to assess racial disparities in police stop data; integrated, cleaned, and geocoded large datasets to conduct empirical research on selective enforcement with Georgetown Law's Criminal Justice Clinic

**Georgetown University, McCourt School of Public Policy**

**Washington D.C.**

*Data Analytics Research Assistant*

*August 2023 - August 2024*

- Collaborated with the Census Bureau on Robert Wood Johnson Foundation-funded research to analyze Child Tax Credit receipt among racial and ethnic minorities below the Poverty Measures; applied survey-weighted analysis using STATA to evaluate the economic equity impact of tax policies
- Analyzed state-level data on the Earned Income Tax Credit (EITC) to identify trends in refundability and state-specific adaptations, providing analysis and data visualization into how different states leverage the EITC to support low-income families and promote economic mobility

**American Enterprise Institute**

**Washington D.C.**

*Data Analytics Intern - Center on Opportunity and Social Mobility*

*January 2024 - April 2024*

- Update a longitudinal dataset of USDA's SNAP waivers with a focus on data recency and accuracy, employing data validation techniques and automation to track socioeconomic indicators affecting program eligibility
- Employed advanced analytics using Python and Stata to assist research scholars in investigating persistent poverty, facilitating the publication of influential academic journals and policy reports

**Michigan Institute for Data Science**

**Ann Arbor, MI**

*Data Science Research Assistant*

*November 2022 - April 2023*

- Conducted a rigorous analysis of wealth disparities due to racial biases, deriving insights into income differentials across racial demographics using Stata's Decomposition Method
- Orchestrated the management of 3.5 million labor market data points using MySQL, and engineered Python parallelization frameworks, evaluating the fiscal implication of policy shifts on income and wealth matrices
- Pioneered a methodology for Marginal Treatment Effect bounds estimation, enhancing policy parameter analytics

## LEADERSHIP

**International Student Council**

**Ann Arbor, MI**

*Co-leader*

*September 2021 - April 2023*

- Advocated for the interests of international students at the University of Michigan by initiating events such as the "International Career Panel" and "Wellness Week" to cater their specific needs and aspirations
- Led weekly meetings and facilitated robust communication channels between students and faculty

**Central Student Government**

**Ann Arbor, MI**

*Ex-officio representative*

*August 2023-April 2024*

- Advocated and Drafted legislation in collaboration with CSG members; successfully implemented the passed proposal with the University faculty and staff to enhance student experiences

## PROFESSIONAL SKILLS

- |          |       |                     |                      |            |                    |
|----------|-------|---------------------|----------------------|------------|--------------------|
| • STATA  | • AWS | • R(Quarto, RShiny) | • Microsoft Products | • Tableau  | • GIS              |
| • Python | • SQL | • MATLAB            | • Snowflakes         | • Power BI | • Machine Learning |