

# CAROLYN LIU

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## EDUCATION

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### Harris School of Public Policy, University of Chicago

Chicago, IL

Master of Science in Computational Analysis and Public Policy

*Expected June 2023*

- Relevant coursework: Computer Science with Applications I-II, Machine Learning for Public Policy, Databases for Public Policy, Data Visualization (Autumn 2022), Program Evaluation

### Wellesley College

Wellesley, MA

Bachelor of Arts in Economics, Minor in Mathematics, Magna Cum Laude

*June 2018*

- Awarded the Natalie Bolton Faculty Prize in Econometrics (2017): Prize for the best econometrics group paper

## EXPERIENCE

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### Harris School of Public Policy

Chicago, IL

*Graduate Teaching Assistant (Advanced Statistics for Data Analysis I)*

*September 2022 - Present*

- Lead two recitation sections, including preparation of materials to facilitate
- Host weekly office hour and grade/provide timely feedback on course assignments

### Civic Digital Fellowship

Remote

*Data Science Fellow at US Census Bureau*

*June 2022 - August 2022*

- Selected from an applicant pool of 1,600 students with an acceptance rate of 10% as part of the Civic Digital Fellowship, a Coding it Forward fellowship that empowers early-career technologists to explore careers in the federal government.
- Conducted exploratory linking and analysis in python between Business Formation Statistics and various demographic datasets, developing a process for how an improved data product will be assembled
- Presented findings to an external audience and senior internal leadership on the process for assembling improved data product

### Harris School of Public Policy

Chicago, IL

*Research Assistant*

*March 2022 - June 2022*

- Leveraged STATA to build infrastructure for large, newly acquired consumer expenditures data
- Explored APIs and string-matching techniques to fill in ~5 million missing key identifiers
- Devised data visualizations for online and offline weekly spending

### Harvard Business School

Boston, MA

*Research Associate*

*July 2018 - July 2021*

- Utilized STATA and SAS to apply econometric models using administrative and financial data
- Aided in the development of HBS cases used in the MBA curriculum by conducting company due diligence, interviewing company staff, and creating requisite data representations

### Wellesley College Department of Economics

Wellesley, MA

*Case Fellow*

*September 2017 - December 2017*

- Developed written lecture hand-outs and examples for future Econometrics classes
- Hosted weekly office hours, STATA lab classes, and graded problem sets for twenty Econometrics students

### NERA Economic Consulting

Washington, DC

*Intern, Securities and Finance Practice*

*June 2017 - August 2017*

- Analyzed raw data from the Office of the Comptroller of the Currency using STATA to create visual exhibits using Excel for a cost-benefit analysis
- Prepared information memorandums for five team members by understanding derivatives markets regulation and analyzing government cost-benefit analyses

**Wellesley College Department of Economics**

Wellesley, MA

*Social Science Summer Research Fellow**May 2016 - July 2016*

- Utilized STATA to analyze data and applied difference in differences model to isolate health effects of those born before and after implementation of advanced agricultural technology for different birth cohorts
- Presented preliminary research findings at weekly lunch seminars and an end-of-summer poster session open to all community members

**Wellesley College Pforzheimer Learning and Teaching Center**

Wellesley, MA

*Economics Tutor and Grader**January 2015 - May 2016*

- Selected to tutor and grade Principles of Microeconomics based on merit among sixty students
- Hosted 2-hour weekly office hours to sixty students each semester and graded biweekly problem sets

**PUBLICATIONS**

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- Rouen, Ethan, and Carolyn Liu. "Education Partners: Becoming Actively Anti-Racist (B)." Harvard Business School Supplement 122-049, November 2021.
- Rouen, Ethan, and Carolyn Liu. "Education Partners: Becoming Actively Anti-Racist (A)." Harvard Business School Case 122-048, November 2021.

**SKILLS**

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- Technical: Python (numpy, pandas, matplotlib, scikit-learn), STATA, SAS, D3.js (basic)
- Mandarin Chinese (Conversational)