

Katherine Ren

Interdisciplinary Computer Science Researcher

345 Sea Isle Key, Secaucus NJ, 07094 | Email: kr5379@princeton.edu | Phone: +1 (201) 681-3379 | [LinkedIn](#) | [Personal Website](#)

Research Interests

Data Science, Data Visualization, Journalism, Technology Policy, Computational Humanities with AI/ML, African American Studies, Racial Justice, Gender and Sexuality

Education

B. S. E. in Computer Science, Minor in African American Studies, Princeton University, 2026

- Writing Seminar Work: *Compulsory Heterosexuality in Mao Era China: Marriage as a Union of Equals*
- Junior Independent Work: *Framing Fairness: News Narratives and the Politics of Welfare*
- Thesis: [TBA]

Skills

Coding: Python, R, Java, C, C++, SQL
Data Analysis: PostgreSQL, R
Data Visualization: Flourish, R
Languages: English, Chinese, Japanese

Relevant Coursework: COS333: Advanced Programming Techniques, ANT456: Data Visualization, SML201: Introduction to Data Science, SPI412: Science for Policy and Policy for Science

Experience

* I have completed all COS BSE requirements and all AAS minor requirements

Tutor, Edna Mahan Correctional Facility for Women (Prison Teaching Initiative)

Hunterdon County, NJ
Jan 2024 – Present

- ◆ Tutored incarcerated students on-site in a plethora of college courses in PTI's Undergraduate Learning Program, Graduate Learning Program, and English Learning Program.

Data Science Researcher, Data Science for Social Good Lab at UChicago DSI

Remote
Jun 2025 – Sep 2025

- ◆ worked with [Professor Molly Offer-Westort](#)
- ◆ wrote and tested multiple algorithms for the Structural Democratic Reforms Project for their adaptive survey
- ◆ compiled comprehensive annotated bibliographies regarding the use of adaptive algorithms in political/social science applications
- ◆ ran simulations and wrote data visualization code in R to produce tables and graphs for publication

Researcher, Data Nutrition Project

Remote
Jul 2024 – Sep 2024

- ◆ Worked on project collaborating with New Commonwealth Fund (NCF) to investigate the resource allocation of racial equity pledges made by large corporations in order to create a dataset that prioritizes transparency and accountability

Experience

Undergraduate Researcher, Princeton Center of Information and Tech Policy

Princeton CITP, Princeton, NJ

May 2024 – Sep 2024

- ◆ Worked with [Professor Arvind Narayanan](#) and [Sayash Kapoor](#)
- ◆ Worked on AI/ML research regarding the effects of distribution shifts on ML models that are trained on social science data
- ◆ Created and debugged complex ensemble models built with R and Python

AI/ML Intern, Omni Federal

Remote

May 2023 – Feb 2024

- ◆ Wrote curriculum, designed quizzes, and created programming labs for teaching AI/ML Skills to beginners using Python
- ◆ Fixed bugs using Javascript, CSS, React, etc on Gitlab
- ◆ Researched AI integration for individualized user experiences
- ◆ Proposed new framework for gamified badging system

Data Analyst Intern, American National Standards Institute (ANSI)

New York City, NY

Jul 2021 – Sep 2021

- ◆ Analyzed and compiled data for corporate use from the ANSI FileMaker database using Microsoft Excel and SQL

Financial Analyst Intern, Hudson Regional Hospital

Secaucus, NJ

Jan 2018 – Dec 2020

- ◆ Managed patient bills and hospital invoices, staffed events hosted by the hospital, aided nurses in patient treatment in times of crisis