

# Kaitlyn Li

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## EDUCATION

**The University of Chicago**, *Bachelor of Science in Computer Science and Data Science*

Chicago, IL

GPA: 3.89 | Honors: Dean's List 2021-22, Dean's List 2023-24

Expected, June 2025

Coursework: Introduction to Computer Science I&II, Introduction to Computer Systems, Discrete Mathematics, Theory of Algorithms, Introduction to Data Engineering, Introduction to Database Systems, Introduction to Formal Languages, Introduction to Human-Computer Interaction, Introduction to Data Science I&II, Mathematical Methods for Data Science I&II, Models in Data Science

## EXPERIENCE

**UChicago Human-Robot Interaction Lab**

Chicago, IL

*Research Intern*

June 2024 - Present

- Design a study in collaboration with local educators on using robots for social-emotional learning (SEL) in children
- Test large language models for text-to-speech, speech-to-text, and message generation
- Implement conversation-based lesson plans in Python, deployed on a Misty robot
- Analyze interviews with educators and student interactions to inform experiment design and improve robot interaction strategies
- Create documentation and guides for programming Misty robots with the ROS2 library

**University of Chicago**

Chicago, IL

*Teaching Assistant*

September 2023 - June 2024

- Facilitate discussion sessions of over 15 students and office hours for Introduction to Computer Science I and Computer Science for Data Science
- Collaborate with professors to develop homework materials and automated testing functions
- Guide over 50 students per term through discussions, review problems, and issues understanding the course material

**University of Chicago Data Science Institute**

Chicago, IL

*Research Assistant*

June 2023 - August 2023

- Engineered the Sociome Data Commons to accommodate diverse datasets on a wide variety of factors and ensure scalability
- Collaborated with over 10 researchers to identify their needs and incorporate features that met them to implement a user-friendly interface tailored to researcher's requirements
- Leveraged feature reduction techniques to build predictive models for children with asthma on the South Side of Chicago to better understand possible interventions to minimize disease severity
- Contributed statistical findings to "Sociome Data Commons: A Scalable and Sustainable Platform for Investigating the Full Social Context and Determinants of Health" published in the Journal of Clinical and Translational Science

## LEADERSHIP & ACTIVITIES

**UChicago Tech Team**

Chicago, IL

*Member*

September 2023 - Present

- Develop software and data-driven solutions to provide non-profits and policy institutions tools to strengthen their mission and optimize their resources
- Utilize Azure and Power BI to create and interactive dashboards with over 50 visualizations, transforming raw data into actionable business insights

**Delta Gamma Fraternity - Eta Zeta Chapter**

Chicago, IL

*Vice President of Social Standards*

April 2023 - Present

- Mediate conflict and promote calm and professional communication in sensitive situations
- Uphold and enforce all policies while fostering a culture of care and personal accountability for over 125 members

**Dear Asian Youth**

Chicago, IL

*Team Member*

October 2021 - Present

- Promote over 50 local businesses for the annual AAPI Restaurants Week hosted by OCA Greater Chicago
- Boost voter confidence in the 40th and 50th wards prior to the March 2024 primary elections with the Indo American Center

## PROJECTS

**NHL Predictor - Python**

- Explores a dataset of all the 2023-2024 National Hockey League (NHL) regular season games
- Trains and tests various models to predict the outcome of NHL games in an attempt to find the best model

**Sociome Data Commons - Python, CSS, HTML**

- Open-source project that facilitates uploading, storing, and accessing datasets for researchers to use
- Encourages further study of wider ranges of social determinants of health rather than just one determinant or a set of related determinants in order to avoid potential loss of nuances and interactions between factors

## SKILLS

Python, SQL, C, HTML, CSS, Rust, R, Pandas, NumPy, scikit-learn, Django, Git, Linux, Data Analytics, Adobe Suite, Google Workspace, Microsoft Office