

Roy Zhu

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EDUCATION

Northwestern University | Evanston, IL

Expected June 2025

B.A. in Environmental Science, B.A. in Creative Writing

Relevant Coursework: Urban Ecology, Topics in GIS, Community Ecology, Maple Syrup and Climate Change, Statistics, Health of the Biosphere, Genetics and Evolutionary Biology

GPA: 3.936 / 4.0

URBAN ECOLOGY EXPERIENCE

Pilsen Environmental Justice Mapping Project | Chicago, IL

January 2024 – March 2024

Course Research Project

- Collaborated with neighborhood partners (Women for Green Spaces, Metropolitan Chicago Data Science Corps) to work on mapping (QGIS) green space equity and parks access in the Pilsen neighborhood
- Presented findings at an open-to-all ages symposium in Pilsen and invited families to add street data
- Discussed campaign strategy to engage Chicago Parks District and Chicago City Council

Maple Syrup and Climate Change Study | Evanston, IL

January 2024 – March 2024

Course Research Project

- Monitored a subplot of mixed species maple trees for a multi-year survey of sap production/harvest
- Partnered with the Argonne National Laboratory's CROCUS (Community Research on Climate and Urban Science) team to install probes on trees in the Evanston survey site to monitor microclimate
- Recorded and analyzed data from direct observations and probes to further understand climate impacts on urban maple trees and advocate for expanded public access to municipal trees

Evanston Park Accessibility Study | Evanston, IL

September 2023 – December 2023

Course Research Project

- Collected over 300 observations to analyze quantitative and qualitative trends in usage of green infrastructure vs. gray infrastructure in local city parks
- Designed and managed data collection plan and data sheet based across multiple digital platforms
- Coauthored a 18-page report recommending park design and public health updates based on data

RESEARCH EXPERIENCE (COMMUNITY PARTNERSHIPS)

Queer Story Table at Asian American Resource Workshop | Boston, MA

January 2023 – September 2023

Undergraduate Independent Research Grant

- Designed an oral history and participatory archive project on queer Asian American history in Boston at the Asian American Resource Workshop (AARW)
- Interviewed AARW staff to develop narrative exhibition methods that would resonate with target audience
- Built interactive archives and storytelling exhibit for display at multiple queer/Asian community events, engaging over 110 participants

Archives Assistant at Puerto Rican Cultural Center | Chicago, IL

May 2022 – September 2022

Emerging Scholars Program – Undergraduate Research Assistantship

- Authored and delivered report on best practices for archival website design to director, partners at PRCC (Puerto Rican Cultural Center)
- Compiled annotated bibliography indexing research from 10 journal articles on archives digitization
- Organized and sorted dozens of boxes of archival material donated to the PRCC

RESEARCH EXPERIENCE (INDEPENDENT)

Chicago Education Injustice Mapping Project | Chicago, IL

March 2023 – June 2023

Course Research Project

- Performed multivariate regression, ANOVA, and Tukey's post-hoc tests to see how relevant indicators of education attainment correlate to race and income
- Created multiple maps of Chicago public high schools based on college matriculation rates and spatial segregation of ethnic neighborhoods

ArcGIS LGBT Boston StoryMap | Evanston, IL

January 2023 – March 2023

Course Research Project

- Used ArcGIS StoryMaps to link historical documents related to queer Asian history to geographic sites in Boston as part of virtual exhibit

New Bostonians Project | Boston, MA

May 2020 – February 2021

Begley Scholars High School Research Grant

- Interviewed civic leaders from four immigrant BIPOC communities in Boston
- Composed graphics/maps/text for an interactive website to communicate research to peers

MUSEUM EXPERIENCE

Block Museum | Evanston, IL

September 2023 - Present

Student Ambassador

- Designed and led hourlong art talks in "Art, Care, and Ecology" exhibit that engaged dozens of visitors in interactive exercises designed to provoke questions about human relationships with the environment
- Researched artists and presented artworks for purchase as part of an institutional acquisition committee

STUDENT ACTIVITIES

Northwestern University Community for Human Rights | Evanston, IL

April 2023 - Present

Speaker Relations Co-Chair

- Managed complex logistics and bookings for three panelists and two keynote speakers in the largest student-run human rights conference in the nation

Helicon Literary Magazine | Evanston, IL

January 2022 - Present

Contributor

- Performed frequently at open mics and reading events
- Published six poems and one short story across four issues of Helicon

SKILLS

English (native), Mandarin (spoken fluency), French (working proficiency)

Microsoft Office Suite (primarily Excel, PowerPoint, Word)

R (programming language)

QGIS (GIS software)

Slack (workplace communications platform)