

Ruike Lin

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EDUCATION

University of Wisconsin-Madison | Madison, WI

Expected Graduation: December 2025

Bachelor of Science: Information Science | Certificate (Minor) Data Science

Relevant Coursework:

- Data Science Programming I (CS 220): Wrote Python scripts to datasets using Pandas and matplotlib
- Data Storytelling (LIS 407): Developed data visualizations to communicate insights
- Introduction to Web Development (CS 472): Proficient in HTML, CSS, JavaScript

University of Wisconsin-Oshkosh | Appleton, WI

January 2022 – May 2023

General Education

EXPERIENCE

University of Wisconsin Madison-Information Science

Madison, WI

Undergraduate Research Assistant

May 2024 – Present

- Analyzed user engagement trends and demographic disparities in NASA-sponsored citizen science projects using R, leading to targeted recommendations for increasing participation among underrepresented groups
- Processed and analyzed large-scale survey datasets (6,000+ responses) using dplyr, data.table, and lubridate, performing data wrangling, variable transformations, and filtering techniques to ensure high data integrity. Extracted behavioral patterns and participation trends, enabling more informed decision-making in citizen science initiatives
- Designed interactive data visualizations using ggplot2, DT, and kableExtra, converting raw survey and system log data into clear, interactive dashboards. These visualizations allowed for a more intuitive understanding of participation trends, engagement levels, and demographic breakdowns across different projects
- Applied statistical hypothesis testing (Chi-square tests and ANOVA) to investigate participation disparities across multiple demographic factors, including age, gender, race, education level, income, and employment status. The findings contributed to a better understanding of barriers to participation and helped refine community outreach strategies
- Co-authored a research paper, *Participation Through Perspective: The Role of Community Views in Citizen Science*
- Presented research insights at an academic conference via a poster session, summarizing key findings on user engagement and value orientations

PROJECTS

UW-Madison: Department of Information Science

February 2024 – May 2024

Class Project: Web Design(LIS 351 – Introduction to Digital Information)

- Designed and developed FitBegin, a responsive fitness website using HTML and CSS, improving information accessibility for beginner gym users
- Created a structured layout with navigation, resource pages, and interactive content to enhance user experience
- Wrote and formatted compelling fitness-related content to engage users and improve readability
- Implemented a clean and accessible design, ensuring usability across different devices and screen sizes

SKILLS

Programming Languages: Python(advanced)

Software: HTML(expert), CSS(expert), Microsoft(expert), JavaScript(advanced)

Pandas and matplotlib(advanced), Data visualization(expert), and presentations(expert)