

Cindy Hou

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EDUCATION

Cornell University, Ithaca, NY

Expected Graduation: Spring 2024

Bachelor of Science in Biometry and Statistics, Information Science

GPA: 4.03

Minor in Computer Science

Relevant coursework: Data Structures and Object-Oriented Programming, Introduction to Data Science, Introduction to Machine Learning, Biological Statistics II, Probability Models and Inference

Trinity School, New York, NY

September 2016 - May 2020

PROFESSIONAL EXPERIENCE

Cornell Lab of Ornithology, Data Analyst

September 2021 – Present

- Examine visualizations of audio recordings to mark elephant rumbles and gunshots
- Aid in programming of an automatic audio detection system through machine learning

India China Institute, The New School, Web Design Intern

July 2021 – August 2021

- Edited site layout, implemented interactive sliders, and updated employee information
- Used data on email and social media posting performance to inform design, increasing interaction by 8%
- Designed email campaigns, social media posts, and posters for upcoming events

The Ivy Review, Tutor

September 2020 – Present

- Instruct and assemble lessons in Python, statistics, and SAT in classes of 15+ students and private sessions

Queens STEM Girls, Communications Intern

July 2018 – August 2019

- Litigated with event staff to coordinate details to organize conferences with over 100 attendees
- Answered calls and took down messages, maintaining a record of incoming information on spreadsheets

PROJECTS

Engaged Internet of Things Team, Cornell, Software Subteam

Ongoing

- Analyze real-time big data on device energy usage stored in InfluxDB to create visualizations for users
- Update web application features and add functionality such as password authentication through React.js

Data Mining Stock Trends <https://github.com/H-Cindy/stock-trends>

Ongoing

- Employ exploratory data analysis and regression techniques using Python's Pandas package
- Investigate the factors that contribute to performance and the validity of the "hot hand" phenomenon

Titanic Survival github.com/H-Cindy/Titanic-Survival

2021

- Predictive model to determine a survivability on the Titanic using machine learning algorithms via R

Environmental Impact of Foods github.com/H-Cindy/foods-impact

2021

- Interactive visual essay and website built using HTML, CSS, and JavaScript to showcase visualizations created in Tableau and Adobe Illustrator of data on the impacts of different foods

LEADERSHIP AND INVOLVEMENT

Nature Society, Cornell, Vice President

Residential Sustainability Leaders, Cornell, Communications Lead

Big Red Clinic, Cornell, Treasurer

Epsilon Nu Tau Professional Entrepreneurship Fraternity, Cornell, Member

SKILLS AND AWARDS

- *Programming:* Python, R, Java, JavaScript, HTML, CSS, Git, SQL
- *Software:* Certified Microsoft Office Specialist: Excel Associate, Tableau, Adobe Photoshop
- *Other:* Data Visualization (Parsons School of Design certificate program, ongoing), Mandarin (speaking)
- *Awards:* Dean's List Fall '20 & Spring '21, High School Department Award for Excellence in Science (2020), Gruneau Prize for Excellence in Research Biology (2020), Scholastic National Gold Medal for Digital Art (2019), 1st Place in NYU InnoVention Prototyping and Entrepreneurship Competition (2018)