

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: 3.99

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

Integra FEC, *Incoming Forensic Data Analyst*

May 2022 - August 2022

Cornell Lab of Ornithology, *Data Analyst*

September 2022 - Present

- Examine visualizations of audio recordings to mark elephant rumbles and gunshots
- Aid in programming of an automatic rumble detection system by using K-NN for image classification

India China Institute, The New School, *Data Analyst*

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 for 15+ student classes and private sessions

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

iMessage Investigation <https://github.com/H-Cindy/imessage-analysis>

Ongoing

- Query datasets of messages from specific iMessage group chats using SQL
- Visualize messaging patterns including most common words, activity over time, and contribution breakdown
- Vectorize message contents to build a Gaussian Naive Bayes classifier predicting the sender of a message

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

September 2021 - December 2021

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

Environmental Impacts of Food, https://h-cindy.github.io/enviro_essay.html

July 2021 - August 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

Residential Sustainability Leaders, Cornell, *Communications Lead*

Cornell Quant Fund, Cornell, *Analyst*

Epsilon Nu Tau Professional Entrepreneurship Fraternity, Cornell, *Member*

Ascend Pan-Asian Business Organization, 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)