

Danyu Hu

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected: May 2022 - Bachelor of Science: **Electrical and Computer Engineering**

Dec 2022 - Master of Engineering: **Electrical and Computer Engineering**

Relevant Courses: Evolutionary Algorithm and Game Theory; Stochastic Control; Machine Learning; Big Data Technology; System Engineering & Optimization; Digital Signal Analysis; Computer Vision; Embedded System; Microcontrollers; Microelectronics; Probability and Statistics; Finance; Marketing; Financial Accounting

PROFESSIONAL EXPERIENCE

Cornell Center for Social Science, *Technology Workshop Consultant*

March 2022-Present

Bank of America, Dallas, TX, *Mainframe Monitoring Intern*

June. 2021-August. 2021

- Learned about mainframe platforms (CICS, TEP, TADz, APView, TSO) in banking industry
- Learned to write and submit JCL jobs for various purposes
- Performed monitoring tasks on TEP and data management tasks on DB2

Microsoft TEALS Volunteer Program, Virtual, *CS Teacher*

June. 2020-May. 2021

- Computer Science co-teacher at a high school in Buffalo, NY
- Held weekly office hour to help student learn Scratch and Python
- Virtually worked with other volunteers to help high school students develop interests in computer science

Cornell Center for Material Science, *Administrative Assistant*

Jan. 2019-Jan. 2020

- Helped organize conferences and symposiums
- Learned about local startup companies
- Maintained the organization's website and business data

LEADERSHIP EXPERIENCE

Cornell University Biomedical Device Project Team, *Electrical Team Lead*

Oct. 2019-May. 2020

- Scheduled and led weekly meetings (for reflections and future planning) and technical workshops
- Encouraged communication and innovation within the team

RESEARCH EXPERIENCE

MEng. Project, Cornell University, *Master's Student Researcher*

Feb. 2022-Present

- Building a simulation platform to assess and improve Federated Learning Algorithms

Schaffer and Nishimura Lab, Cornell University, *Undergraduate Researcher*

June. 2020-May. 2021

- Helped build a virtual reality system on mice to better study Alzheimer's Disease
- Worked with raspberry pi, display drivers, and optical tools

The Institute of Remote Sensing and Digital Earth, Beijing, China, *Undergraduate Researcher* **July. 2019-Aug. 2019**

- Learned basics of Artificial Intelligence, including Deep Learning and Semantic Segmentation
- Built a Pytorch ML model that automatically recognized and labeled sewage plants on satellite map

CAMPUS INVOLVEMENT

Alpha Omega Epsilon Engineering Professional Sorority, Cornell University, *Member* **Nov. 2018-Present**

SPECIALIZED SKILLS

Programs: Python, Java, SQL, MATLAB, C Language, Verilog, R Studio, HTML, COBOL, REXX, GD Script

Technical Knowledge: Dynamic Programing, Semantic Segmentation, K-Means Clustering, Image Processing, Optimization, Signal Analysis, Website Creation, Data Analysis, Terminal, Linux, Jupyter Notebook, Raspberry Pi, Arduino, Circuitry, Microcontrollers, Display Drivers, Mainframe, TADz, TEP, CICS, APView, DB2, IBM z/OS

Business Knowledge: Finance, Financial Accounting, Marketing, Micro-economic, Sociology

Past Projects Links: <https://pages.github.coecis.cornell.edu/dh573/ECE3400-Danyu/>

<https://pages.github.coecis.cornell.edu/ece3140-sp2021/dh573-mce54/>