

Felix Hohne

[Email](#) | [LinkedIn](#) | [GitHub](#) | [Website](#)
[607-882-4866](#)

Education

Cornell University, Ithaca, NY

Aug. 2019-May 2023

- BA in CS and History, GPA: 3.82/4
- Technical Coursework: Honors OOP, Functional Programming, Advanced ML Systems (FA 20), Computer Sys. (FA20), Linear Algebra, Engineering Prob. & Statistics, Discrete Math
- Experience: Java, Python (PyTorch, pandas, numpy, Matplotlib), JavaScript (React), OCaml, R, C
- Foreign Languages: German (native, AP: 5 / DSD II: C1), Chinese (native, AP: 5 / HSK 6: C1)

Projects

PhyloML – An OCaml phylogenetic tree library with React Frontend [GitHub](#) | [Website](#)

Mar. 2020-Aug. 2020

- Build a phylogenetic tree library for the functional language OCaml in team of three by analyzing genetic sequences from NCBI using Needleman-Wunsch and UPGMA, and develop a parser for existing phylogenetic trees

Final Project for CS 2112: Honors OO Design and Data Structures [GitHub](#)

Oct. 2019-Dec. 2019

- Construct a multi-threaded distributed server capable of communicating with multiple JavaFX GUIs over a local network in team of two with 10,000 lines of Java code

Data Visualization Project: [GitHub](#)

Dec. 2019-Jan. 2020

- Study American societal trends by visualizing large datasets (i.e. U.S. Births) using Python's pandas, matplotlib, and seaborn libraries

Experience

Cornell University –Honors OOP & Data Structures - Teaching Assistant

Aug. 2020-Dec. 2020

- Co-lead discussion sections, hold office hours, and grade coding assignments / exams

Cornell University Artificial Intelligence – Undergraduate Researcher

Oct. 2020-present

- Conduct research to improve the performance of Graph Convolutional Networks in situations of low homophily to enhance malicious node detection, supervised by Prof. Austin Benson

Cornell Data Science Project Team, Intelligent Systems – Researcher

Jan. 2020-present

- Develop approaches based on greedy algorithms, spectral clustering, and hamming distance to display k most different maps as part of a project to utilize Integer Programming to draw congressional plans for redistricting commissions
- Learn NLP by developing sentiment classifiers for movie datasets using scikit-learn and visualize model performance using Matplotlib and seaborn

Cornell University, Dept. of Natural Resources – Research Assistant for Prof. Sullivan

Jan. 2020-Mar. 2020

- Improve geospatial data processing pipeline with Python ArcPy and ArcGIS ModelBuilder to enable better visualization of long-term trends in fishery data

Royal Bank of Canada – Research Intern

June 2017-July 2017

- Analyze impacts of disruptive technologies to identify potential stocks for client portfolios

Leadership & Service

Cornell Association of CS Undergraduates – Peer Mentor

Oct. 2020 – present

- Mentor freshmen on campus life, academics and research at Cornell

Cornell International Student Orientation Volunteer

Aug. 2020

- Lead discussion sections with 10 new students on academics, culture shock, and life at Cornell

Awards and Publications

- Cornell University Tanner Dean's Scholar: Awarded scholarship and research grant (\$5000) Apr. 2019
- Fraser Institute Essay Contest: 1st prize (\$1500) for best Canadian essay: *Creating More with Less: How to Regulate the Sharing Economy*. Canadian Student Review: Winter 2018, [6-10](#). Nov. 2017
- Government of Canada History Competition: Awarded (\$1000) Oct. 2017
- *Home Alone: Chinese Immigrants and US Immigration, 1848-1888* Pioneer Research Journal, [125-136](#) Oct. 2017