

Claire Hsieh

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EDUCATION

Bachelor of Science - Genetics and Genomics Expected graduation June 2024
University of California, Davis
GPA: 3.68
Minor: Quantitative Biology, Statistics
Relevant coursework:

- Statistics
- Regression Analysis
- Data Structures
- Probability & Stochastic Processes with Applications to Biology
- Linear Algebra
- Comparative Genomics
- Genes and Gene Expression
- Theory & Practice of Bioinformatics

CLUBS

Davis Data Science Club | Social Media Officer | Sep 2022 – Present

- Design and distribute posters to promote club meetings and events

RESEARCH INTERESTS

- Analyzing and modeling gene structure and function
- Predicting and modeling the effects of drugs on gene expression

RESEARCH EXPERIENCE

Research Assistant | Topological Molecular Biology Lab | Apr 2022 – Present

- Utilize profile HMMs in predicting SARS COV-2 mutation probabilities by adding weights based on country
- Clean and align genomic data sets
- Grow and collect microbial cultures
- Set up and perform gel electrophoresis
- Prepare frozen samples using GP2 and image using Cryo-EM

Research Assistant | Korf Lab | Dec 2022 – Present

- Design python programs that utilize intron position in the prediction of gene enhancement
- Design algorithms to find motifs using discretized position weight matrices

TECHNICAL SKILLS

Programming Languages: Python (numpy, pandas, matplotlib), R, Perl, MATLAB, YASARA,
Operating System: Windows, Linux, Unix
Version Control: Git

RESEARCH SKILLS

- General Laboratory
- Bacteriology
- Gel Electrophoresis
- Grid Preparation (Electron Microscopy)
- Plaque Assay

COMMUNITY SERVICE

Priceless Pets | Jan. 2019 – Feb. 2020

- Walked dogs

LANGUAGES

English: Native Language

Mandarin: Intermediate Listener, Intermediate Speaker, Beginner reading and writing

PROFESSIONAL TRAINING

US Cyber Challenge | Jul 2022

- Coursework: Memory Forensics, Network Forensics, Linux

Scientific Computing with Python | freeCodeCamp | Mar 2022

- https://www.freecodecamp.org/certification/Claire_Hsieh/scientific-computing-with-python-v7

Data Analysis with Python | freeCodeCamp | Jan 2023

- https://www.freecodecamp.org/certification/Claire_Hsieh/data-analysis-with-python-v7

OTHER

Hobbies: Reading, Playing guitar