

Cindy Wang

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EDUCATION

HARVARD UNIVERSITY

Cambridge, MA

A.B. in Statistics (Bioinformatics and Computational Biology track)

Expected May 2024

Coursework: CS 50 (Introduction to Computer Science), Math 22A (Vector Calculus and Linear Algebra I), LS 1A (Introduction to the Life Sciences: Chemistry, Molecular Biology, and Cell Biology), Freshman Seminar in Skin Biology

EXPERIENCE

HARVARD UNIVERSITY

Cambridge, MA

Student Researcher – Department of Earth and Planetary Sciences

July 2020 – September 2020

- Collected data on population demographics and COVID-19 policy responses in the US
- Used ggplot (in R) and PCA (from sklearn in Python) to model and analyze the impact of various socioeconomic preconditions and policy responses on states' cases and deaths due to COVID-19
- Identified prevalence of diabetes and financial insecurity to be positively correlated with states' cases and deaths of COVID-19 per capita

SAINT LOUIS UNIVERSITY

St. Louis, MO

Research Intern – Department of Biology

May 2019 – September 2019

- Investigated the toxins contributing to the virulence of *Candidatus Liberibacter asiaticus*, the bacteria that cause citrus greening disease through genome-wide analyses (PSI-BLAST, BLAST)
- Applied clustering (OrthoClust) and alignment algorithms (Kalign, MUSCLE) to identify and elucidate the functions of novel candidate toxins
- Second author on a manuscript in preparation entitled "Comparative and functional genomics of citrus Huanglongbing-associated bacteria"

Research Intern – School of Medicine

June 2017 – January 2019

- Investigated the role of Toll-like receptor 8 (TLR8) in reprogramming cancer metabolism
 - Examined the effects of activating TLR8 on the levels of key glycolytic intermediates as well as the expression of key glycolytic proteins including glucose transporters 1/3 and hexokinase 2 in four different cancer cell lines
 - Presented research findings in Intel International Science and Engineering Fair in 2019
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SKILLS AND INTERESTS

Technical: Python (pandas, matplotlib, numpy, sklearn, bs4), C, R, Flask, JS, React, HTML/CSS, Figma

Laboratory: Quantitative RT-PCR, western blot, flow cytometry, PBMC isolation, SA-beta-gal senescence assay, cell culture (MCF-7, M586, M628, PC-3), gel electrophoresis

Language: Fluent in Mandarin, Working Proficiency in Spanish

Interests: Web/mobile development and design, dance, cooking, skincare, needle felting, health policy

EXTRACURRICULARS

Harvard Food Lab for Kids (Director of Outreach)

Harvard Project for Asian and International Relations (HPAIR) (Technology Board Associate)

Harvard Design Collective Agency (User Experience and User Interface Designer)