Eric Lam

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OBJECTIVE

Senior at University of Hawaii at Manoa interested in data science, analytics, and visualization. Looking into graduate programs in Statistics and Mathematics.

EDUCATION

Biochemistry (BA), 3.4 GPA
Minor: Computer Science
University of Hawaii at Manoa (Spring 2021)
Honolulu, Hawaii

High School Diploma, 3.5 GPA
Punahou School '17
Honolulu, Hawaii

SKILLS

Software: LaTeX, Microsoft Office Suite
Computer Languages: Java, Javascript, C, R, Python
Foreign Languages: Japanese, Vietnamese, Mandarin Chinese

WORK EXPERIENCE

Research Assistant July 2020- Current
State Epidemiologic Outcomes Workgroup, Pacific Health Analytics Collaborative

- SEOW is a part of the analytics team in PHAC. They provide epidemiologic services to the Hawai'i Department of Health.

Current Projects:

- Automating the production of the yearly State Epidemiological Profile and fact sheets using R. This profile is a compilation of data from three different national surveys conducted by the CDC on substance abuse, youth risk behavior, and pregnancy.

Research Assistant Fall 2017- Current
Allsopp Lab, Institute of Biogenesis Research at John A. Burns School of Medicine

- The Allsopp lab does research into healthy aging, centered around an enzyme that extends the telomeres of one's DNA which prevents detrimental DNA damage.
- Trained in basic and quantitative PCR reactions, DNA and RNA extraction, generic protein and telomerase specific (TRAP) assays, basic tissue culture techniques.

Current Projects:

- Conducting primary data analysis of genotype, cytokine levels, gene expression, and protein activity of Okinawan blood samples.
- Implementing a machine learning algorithm in Python to relate biological inflammatory markers with aging.

Waiter June 2017- December 2019

The Counter, Kahala Mall

- Started as host in Summer 2017, promoted to food expediter in Spring 2018, then promoted to waiter in Summer 2018.
- Developed skills in critical thinking, communication, customer service, and multitasking.

EVENTS

INBRE Bioinformatics Workshop Series June 2020- July 2020

Available only to INBRE students (see Awards), this is a seminar series designed for undergraduate students to begin gaining skills in bioinformatics. I learned how to perform bioinformatics searches, analysis, and alignment in R using the Bioconductor package.

Year-In-Japan Program Jan 2020- May 2020

Hosted by Konan University in Kobe, Japan, this is a language intensive program where students from around the world develop their Japanese language skills and expand their knowledge of Japan through intensive classes and a homestay experience.

HackTheWave Hackathon September 20-22, 2019

HackTheWave was an event designed to bring critical thinkers together to solve problems related to amyotrophic lateral sclerosis (ALS). I worked with a team to implement a machine learning algorithm to find relationships between ALS progression and clinical lab results.

AWARDS

INBRE Associate Fall 2019, Summer 2020

INBRE stands for IDeA Network of Biomedical Research Excellence. Funded by the National Institutes of Health, INBRE aims to foster undergraduate research and education in biomedical science through grants and educational resources.

Dean's List Fall 2017, Spring 2019-Spring 2020

Earned for having a semester GPA of 3.5 or higher

Academic WorldQuest 3rd Place Nov 2016

Placed third in the state of Hawaii among over 50 teams in a competition on knowledge of international affairs. Topics included the rise of ISIS, international migration, climate geopolitics, current events, women in technology, global megacities, infectious diseases, and China.

COMMUNITY SERVICE

Volunteer for Magic Island Relay for Life Committee Spring 2018

The Magic Island Relay for Life is a fundraising event held by the American Cancer Society to fund cancer research and public policy. I worked with a team to organize the silent auction, which raised over $10,000 dollars in funding.