Jacob Y. Chow

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EDUCATION

M.S. Computer Science Expected Fall 2020
San José State University
San José, California

B.S. Marine Biology 06/2017
University of California, Los Angeles
Los Angeles, California

Coursework & Skills
Linear Optimization, Theoretical Statistics, Bioinformatics, Object-Oriented Programming
Python, Go, Java, R, MySQL, Git

EXPERIENCE

UCLA Center for Environmental Implications of Nanotechnology (CEIN) 06/2015 – 06/2017
Student Researcher – Los Angeles, CA

- Established and optimized diverse SOP's for conducting animal histology, high-throughput robotic processing, immunohistochemistry, and nanoparticle synthesis & characterization to investigate zebrafish anatomy and behavior to build models of metabolic pathway inhibition

UCLA Life Sciences Core Education 08/2015 – 09/2015
Reader & Undergraduate Assistant – Los Angeles, CA

- Communicated as assistant to professor during lecture and labs for LS 30, a calculus & programming course, and jointly facilitated student learning and mastery of multivariate calculus and Python

PROJECTS & RESEARCH

Spotify Discord Music Bot (personal project) Ongoing

- Written in Go, this project is an asynchronous bot client that is ubiquitously deployable across numerous instances that utilizes the Spotify API via Mopidy integration to handle music requests and audio player commands in a streamlined, persistent audio player endpoint

Differential effect of micron- versus nanoscale III-V particulates and ionic species on the zebrafish gut – **coauthor** 06/2017

- Collected and analyzed large datasets via high-throughput robotic techniques on thousands of embryos in direct collaboration with postdoctoral researchers regarding methodology and data analysis techniques, culminating with a peer-reviewed publication in Environmental Science Nano, Royal Society of Chemistry (DOI: 10.1039/C6EN00675B)

UC Berkeley Gump Research Station in Mo'orea, French Polynesia 04/2017 – 06/2017

- Conducted faculty advised field research on a tropical fringing reef system and analyzed large datasets in R and JMP to identify statistically significant relationships, presenting projects as a team in an annual symposium while pushing findings for review and eventual publication