

## **Santiago Yanez**

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### **Education**

#### **Bachelor of Science in Marine Biology**

University of Hawai‘i at Mānoa – Honolulu, HI

*Expected Graduation Date: Spring 2025*

**GPA: 3.47**

### **Professional Experience**

#### **Biostatistics Teaching Assistant (Biology 220L)**

University of Hawai‘i at Mānoa | Department of Biology

*August 2024 – Present*

- Teach and grade materials for one section of Biostatistics , facilitate student group project hypotheses, peer review and presentation

#### **Marine Genetics Research Assistant**

University of Hawai‘i at Mānoa | ToBo Lab, HIMB

*July 2024 – Present*

- Molecular biology lab work: DNA extraction, PCR, NCBI database searches, primer selection and design

#### **General Chemistry Lab (Chemistry 162L) Instructional Intern**

University of Hawai‘i at Mānoa | Department of Chemistry

*January 2024 – July 2024*

- Create quiz and short lecture, guide students through experiment (162L)

#### **Oceanography Student Project Assistant**

University of Hawai‘i at Mānoa | CMORE-HALE

*June 2023 – March 2024*

- HOT Cruise Data annotation and selection of images for machine learning algorithm

#### **Lab Assistant (NSF MathBio)**

University of Hawai‘i at Mānoa | Zenil-Ferguson Lab

*September 2021 – July 2022*

- Data aggregation - find and extract data from publications with data of population cycling phenomena

## **SELECTED WORKS IN UNDERGRADUATE STUDIES**

### **Research Projects**

*Development of an Environmental DNA (eDNA) Tool for Early Detection of Invasives and Monitoring for Spread of Unomia in Hawai'i*

Research Assistant, University of Hawai'i at Mānoa | July 2024 – Present

*Assessing the Efficacy of Marine Fish Survey Methods*

Mentored Research, University of Hawai'i at Mānoa | Completed May 2023

### **Course Research Papers**

Yanez, S. "Integrating Environmental DNA Metabarcoding and Visual Surveys to Assess Coral Reef Community Structure in O'ahu, Hawai'i" (May 2024) for BIOL 301 at University of Hawai'i at Manoa.

Yanez, S. "Assessing the Efficacy of Marine Fish Survey Methods" (December 2023) for BIOL 499 at University of Hawai'i at Manoa.

Yanez, S. "Empiricism, Indigenous Wisdom, and Ethical Conservation in Kimmerer's *Gathering Moss*" (November 2023) for BOT 300 at University of Hawai'i at Manoa

Yanez, S. "Tracing the Genetic and Morphological Evolution from Green Algae to Land Plants: Conserved Genes and Key Genera" (October 2023) for BOT 480 at University of Hawai'i at Manoa.

Yanez, S. "'Preliminary Analysis of Lichen Competition Dynamics Based on Percent Coverage at the University of Hawai'i at Mānoa Campus" (November 2022) for Bio 265L at University of Hawai'i at Manoa

### **Presentations**

Undergraduate Showcase May 2023 | *Assessing the Efficacy of Marine Fish Survey Methods*

### **Methods and Skills**

**Computational:** R (ggplot2, infer, dplyr, tidyverse), MEGA, Geneious, Word, Excel, Powerpoint

**Field:** SCUBA Diving certified 2022, Reef Fish Survey Techniques (SPC, BLT), Field species Identification (via MOP)

**Statistical:** Binomial Test, Chi-Squared Test, T-test, Correlation, Linear Model, ANOVA

**Analytical:** DNA Extraction, PCR, Magnetic Bead Clean, Qubit Fluorometric Quantification, eDNA Metabarcoding

### **Languages**

Fluent in English and Spanish

### **Awards**

**Dean's List:** Fall 2021, Spring 2021, Spring 2024

## **References**

### **Dr. Andrew Rominger**

Assistant Professor in Quantitative Biology, School of Life Sciences, University of Hawai'i at Manoa

E-mail: [rominger@hawaii.edu](mailto:rominger@hawaii.edu)

Web: [ecoevomatics.org](http://ecoevomatics.org)

### **Dr. Van Wishingrad**

Research Fellow

Hawaii Institute of Marine Biology

E-mail: [vanw@hawaii.edu](mailto:vanw@hawaii.edu)

Web: [vanwishingrad.com/](http://vanwishingrad.com/)

### **Dr. Robert J. Toonen**

Co-Director, Marine Biology Graduate Program, HIMB

Research Professor/Gates Endowed Chair HIMB

E-mail: [toonen@hawaii.edu](mailto:toonen@hawaii.edu)

Web: [tobolab.org](http://tobolab.org)

### **Mr. Jeff Kuwabara**

Staff Coordinator

Marine Option Program, University of Hawai'i at Manoa

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