TREVOR NISHIDA

🎓 EDUCATION

2023
|
2019

B.S., Marine Science. (minor Chemistry)
University of Hawaii at Hilo

📍 Hilo, HI

· Certificate in Data Science

💼 WORK EXPERIENCE

Present
|
2024

HCRI Fisheries Database Assistant
Hawaii Coral Reef Initiative

📍 Hawaii Division of Aquatic Resources

· Provide accurate information pertaining to commercial fishing licensing both in person and over the phone
· Enter mailed in paper fishing reports to a digital database, ensuring accurate commercial fisher reporting
· Communication with the general public in order to get corrections for any reporting discrepancies on commercial fishing reports
· Preparation of data summaries and visuals to communicate fishery data to a general audience.
· Development of a data dashboard using Quarto and R to track and communicate important commercial species' catch limits to the stakeholders.
· Creation of various R scripts to assist the division in data quality assurance and control.
· Conduct spatial data explorations into the potential of commercial fishery trends across the Main Hawaiian Islands.

23-Oct
|
23-May

Pacific Islands Fisheries Science Center Young Scientist Opportunity Intern
Pacific Islands Fisheries Science Center

📍 NOAA Inouye Regional Center

· Compiled various sources to create a comprehensive list of marine fauna for the Hawaii EEZ.
· Worked to analyze large amounts of environmental DNA data in R & RStudio.
· Combined eDNA and environmental driver data to explore relationships across ecological gradients.
· Presented internship accomplishments as part of a symposium with other NOAA interns.
· Ran machine learning assisted clustering algorithms to explore ecological gradients.
· Visualized taxonomic trees using a variety of methods to convey complex relationships.

Undergraduate Summer Research Intern

22-Aug | 22-May

J Madin Lab

📍 Hawaii Institute of Marine Biology

- Mixing and deairing of ceramic clay.
- Operation of a 3D printer to print various structures using clay as a medium.
- Operation of a kiln to fire 3D printed ceramic structures.
- Utilization of a laser-scanner to create high resolution 3D models of objects in real life.
- Assisted in the collection of coral gametes in a controlled enviroment.
- Aid research with coral larvae settlement experiments in tanks.
- Deployment and surveying of 3D printed ceramic structures onto a reef environment.
- Mixing of concrete to create structures of varying complexity with silicone molds.
- Collection of coral larvae settlement data on 3D printed structures.

MEGA Lab Student Research Assistant

2023 | 2022

University of Hawaii at Hilo - College of Natural Health Sciences

📍 Hilo, HI

- Annotation of high resolution coral reef images on Coralnet
- Annotation of coral reef 3D models built using Structure-From-Motion Photogrammetry in ArcMap
- Identification of Hawaiian coral colonies to the species level

Campus Center Administrative Assistant

2023 | 2020

University of Hawaii at Hilo - Campus Center

📍 Hilo, HI

- Conduct interviews with and review applicant materials for new hires to Campus Center.
- Training of new hires on ID creation, gameroom operations and campus center event procedures.
- Work with Campus Center patrons to coordinate and plan events in reservable spaces.
- Creation of COVID compliant reservation layout designs and related materials.
- Solve various technical issues related to computer hardware and software for Campus Center programs.
- Creation and validation of University of Hawaii ID cards for university students, faculty, staff and affiliated personnel including affiliate faculty, RCUH, and other related personnel.
- Various clerical tasks to assist the Campus Center administration as required.
- Provide assistance, equipment rental and supervision for events held in the facility by various community patrons and University of Hawaii departments.
- Complete various maintenance tasks in order to keep the facility in a presentable state.
- Operation and maintenance of a gameroom and equipment used in the area, keeping equipment sanitary, presentable and in working condition.

PERTINENT SKILLS

Data Analysis

- Statistical analysis of datasets in R
- Cleaning, transformation, and reorganization of large datasets using the "tidyverse" standard
- Creation of scientific publication ready tables and figures
- Development of web applications and data dashboards in the "Shiny" and "Quarto" frameworks
- Experience accessing and working with data stored in databases using SQL and R
- Proficient at working with, vizualizing, and utilizing spatial data in pertinent analyses.

3D Modeling

- Construction and manipulation of 3D models using structure-from-motion photogrammetry techniques and Agisoft Metashape, blender, and Paint 3D
- Creation of 3D scenes & workspaces in UE4 and blender
- Experience building 3D models in Autodesk CAD & Fusion 360

Webpage Design

- Experience using HTML, CSS, and Javascript through the Bootstrap Framework
- Creation of functional websites using GitHub Sites
- Familiar with FTP and SSH workflows to access files on a remote server.

Artificial Intelligence & Machine Learning

- Development of a object detection model via transfer learning.
- Familiar with machine learning assisted clustering algorithms such as K-Means

Photography & Videography

- Skills in DSLR photography for scenic, portrait and action photography
- Post-production editing using Adobe Photoshop, Lightroom & Affinity Photo
- Video editing skills in Adobe After Effects, Adobe Premier, Final Cut Pro, and Da Vinci Resolve

PRESENTATIONS

Diving in Deep: Deep learning for identification of yellow tang (*Zebrasoma flavescens*) grazing behavior in Hawaii

Nishida, T.D.S.   📍 Hawaii Conservation Convention 2023

- Award for "Outstanding Undergraduate Student Oral Presentation"
- Availiable Online[1]

LINKS