

JAYVEN J. COUCH

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EDUCATION

Eckerd College St. Petersburg, FL
Bachelor of Science in Marine Biology
Minors: Chemistry and Psychology
GPA: 3.45

Aug 2017 - May 2021

RELEVANT COURSEWORK

- General Chemistry I & II
- Organic Chemistry I & II
- Analytical Chemistry
- Comparative Animal Physiology
- Marine & Freshwater Botany
- Biological Oceanography
- Introduction to Computer Science (CS50x via Harvard)
- Marine Invertebrate Biology
- Fundamental Physics I & II
- Principles of Ecology
- Chemical & Physical Oceanography
- Marine Animal Behavior Seminar

RESEARCH EXPERIENCE

Effect of predation (*Callinectes sapidus*) on the Atlantic mud crab, *Panopeus herbstii*, behavior.

- Individual research project conducted at Eckerd College during Spring 2021
- Focused on predator avoidance in Atlantic mud crabs by placement in experimental groups containing presence of blue crabs and/or their pheromones
- Collected samples, designed experiments, and conducted statistical analysis

Comparing chlorophyll-a and light penetration along the North Atlantic subtropical gyre.

- Group research project conducted at Eckerd College during Fall 2020
- Goal of study was to analyze the patterns displayed between chlorophyll-a (fluorescence) and light penetration (PAR Irradiance) along various study sites in the North Atlantic subtropical gyre
- Conducted data analysis within a group setting and created a scientific poster for presentation amongst other students and professors

Osmoregulation in blue crabs, *Callinectes sapidus*, and eastern oysters, *Crassostrea virginica*.

- Group lab experiment conducted at Eckerd College during Spring 2021
- Main objective of study was to collect hemolymph and tissue samples from both species and determine osmoregulation or osmoconformity through various tests, such as vapor pressure osmometers and a chloride ion titrator
- Collected samples, produced figures via data analysis, and provided an in-depth lab report

WORK EXPERIENCE

Science Labs Assistant
Hawaii Pacific University

Oct 2021 - Dec 2021

- Perform and/or assist in the preparation of all solutions, chemical, reagents, media, etc. needed to support laboratory sessions.

- Assist in the monitoring and maintenance of the laboratories' safety equipment.
- Assist in maintaining an adequate stock of supplies, etc. needed to operate the University Science Laboratories.
- Perform data entry of various laboratory supplies and chemicals.

Ranch Technician

May 2012 - May 2021

C&C Bison & Cattle Ranch

- Effectively handle diets of animals
- Make sure vaccinations are up to date
- Check everyday activity
- Maintain the well-being and health of a variety of animal

Shop Diver

June 2014 - July 2019

Negril Adventure Divers

- Managed dive shop & customers
- Accompany guests on dives
- Ran website and customer services

Billing Manager

Apr 2015 - August 2017

Four Corners Logistics LLC

- Organize paperwork for billing
- Financial data entry
- Process invoices
- Oversee driver's log sheets
- Developed and implemented effective templates in Microsoft Word and Microsoft Excel to optimize time

COMMUNITY INVOLVEMENT/ VOLUNTEERISM

Service learning trip to Tangier, Morocco

January 2020

- Help build a volunteer center
- Maintain upkeep of animal health for a non-profit animal sanctuary (SFT Animal Sanctuary)
- Spent many hours at ridgecrest healthcare & rehabilitation center connecting with elders and aiding in various activities

SKILLS

General Skills: Dependable, excellent writer, great public speaker, hard-worker, very organized, self-motivated, easy to work with, communicates well with others, creative, and dedicated.

Computer Applications/Languages: SQL, Python, Microsoft Office, Microsoft Excel, and various other computer applications.

Technical Skills: Analytical research and analysis, advanced data entry, self-taught computer science programs/applications/theories, environmental sample collection, proper analytical setup, field and laboratory work, knowledgeable with various technical equipment

Other: Machinery, such as agricultural and mechanical.