

BETHANY BROCKHOFF

2888 Ala Ilima St., Honolulu, HI 96818
Phone: (352)556-9330 • Email: bethany.brockhoff@gmail.com

MARINE BIOLOGIST / BIOLOGIST

PROFILE

- Highly organized and dedicated Marine Biologist with keen scientific acumen and research skills
- Proficient in data collection, management, interpretation, and analysis as well as conclusion formulation
- Proven team player and productive independent performer
- Flexible person able to adapt to new cultural and work environments
- Proactive leader with excellent organizational, multitasking, and time management skills
- Excited to learn new technologies and try on new roles and responsibilities
- Strong communication skills along with an ability to build and maintain effective working relationships

EDUCATION

- Master of Science in Environmental Policy & Management** • *University of Denver*, Denver, Colorado **2019-Present**
- Master of Marine Biology** • *NOVA Southeastern University*, Dania Beach, Florida **2015**
- Bachelor of Science in Biology** • *University of West Florida*, Pensacola, Florida **2015**

EXPERIENCE

- Aulani, A Disney Resort and Spa**, Kapolei, Hawaii **2019-Present**
Animal Husbandry Associate
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- Monitor health and behavior of 1,000 Hawaiian saltwater fish living in a man-made reef
- Monitor health and behavior of ~150 Koi fish
- Regularly swim in the reef to assess overall environmental conditions
- Prepare feeds for all fish; feed the fish; Maintain clean and organized food prep area
- Keep a daily log of food consumption, water-quality, and behavior data; record into Excel spreadsheet
- Oversee quarantine tanks for fish who will be newly introduced to the reef or in need of medical attention
- Developing protocol to breed and rear larva of the shrimp species *Lysmata amboinensis*
- Constructing a set-up to culture algae for live feeds
- Lead a program teaching kids about ocean conservation
- Assist with SAS (Supplied Air Snorkeling) program for guests in the reef
- Scuba dive weekly to assist with deep cleaning and reef maintenance
- Trained to fill the role of water science operator

- Oceanic Institute**, Waimanalo, Hawaii **2017-2018**
Research Assistant
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- Routinely maintained water quality and tank cleanliness of shrimp maturation and growout tanks
- Sustained algal blooms in outdoor growout tanks
- Prepared shrimp broodstock and larval feeds adjusting feed rates based on consumption and growth
- Conducted growth samples of shrimp broodstock
- Sourced mature females for spawning success

- Collected and counted eggs and nauplii to determine hatchery stocking thresholds
- Performed tagging and genetic sampling of shrimp
- Assisted with shrimp hatchery and nursery tasks
- Provided maintenance of equipment and constructed using PVC piping

Marine and Coastal Ecology Research Center Inc., Spring Hill, Florida

2017 - 2017

Research Assistant and Education Specialist

- Contributed to the development and implementation of educational program curricula
- Planned and delivered educational courses to students, naturalists, and people interested in the conservation of marine and coastal environments
- Assisted in conducting research by matching whale flukes, facilitating data collection and analysis

Peace Corps, Zambia, Africa

2015 - 2017

Rural Aquaculture Promotion Agent

- Oversaw a fish farming cooperative in the village of Chipaata, supervising and coordinating fish pond management, fingerling production, and overall fish care
- Gathered and analyzed data to monitor fish populations and measure stock abundance
- Collaborated with the district Department of Fisheries to promote sustainable aquaculture practices through special training programs for small-scale rural farmers
- Educated farmers in site selection, pond construction, stocking, management, and harvesting
- Expedited the 2016 Monitoring and Evaluation review in collaboration with the Chief Fisheries and Provincial Fisheries representatives
- Worked with RAP technical staff and 4 volunteers to assess data collection tools and reporting

Other accomplishments during my Peace Corps service:

- Wrote a grant to build a solar powered computer lab and library at the Chipaata Primary and Secondary School as well as managed the entire construction project
- Secured funding for procurement of all construction materials, computers, and solar equipment
- Partnered with American donors to bring in over 2,000 library books suitable for all ages

Other accomplishments during my Peace Corps service (continued):

- Integrated a system to effectively manage the check-in and check-out process for library books
- Negotiated hiring of 3 new computer science teachers for the computer lab with the Ministry of Education
- Liaised between district Ministry of Education and school staff to establish a new secondary school, opening educational opportunities for students to complete school through grade 12
- Increased the passing rate of students from primary to secondary school by over 50% due to new facility
- Taught Information, Communication, Technology (ICT) class to 120 students in grades 8 and 9
- Provided teaching tools (computers), increasing the passing rate for students taking the grade 9 ICT exit exam by 90% in one year
- Led organization and establishment of the camp GLOW (Girls Leading Our World), camp TREE (Teaching Respect for Everyone's Environment), and the first-ever Girls Can Code! Technology camp

OTHER EXPERIENCE

Duffy's Sports Grill and Bar, North Palm Beach, Florida

2012 - 2014

Hostess

Publix Supermarket, Pensacola, Florida

2011 - 2012

Cashier

Terra Juice, Pensacola, Florida

2009 - 2011

Cashier, Food Preparer, and Closer

VOLUNTEER EXPERIENCE

Loggerhead Marinelife Center, Juno Beach, Florida

2012 - 2014

Rehabilitation Volunteer

- Provided care and assisted with medical treatments of sea turtles, consistently monitoring progress of sick sea turtles through their rehabilitation process
- Observed hatchlings by following water test procedures to evaluate their readiness to be in open water
- Prepared the correct proportion of food and fed both the hatchling and adult sea turtles
- Performed water quality tests

Marine Animal Rescue Society, Dania Beach, Florida

2013

Trained MARS Volunteer

Received training to respond to marine animal stranding calls and assist in the rescue

Broward County Sea Turtle Conservation Program, Dania Beach, Florida

2013

Alternate

Conducted lighting surveys to monitor lighting conditions and disturbances for nesting sea turtles

Sea to Shore Alliance, South Florida, USA

2012 - 2013

Field Observer

Gained experience in telemetry technology usage to conduct manatee research as well as observed tagged manatees post release

Baptist Hospital, Pensacola, Florida

2009 - 2011

NICU Volunteer

Assisted nurses with various medical procedures and provided one-on-one care to babies in the unit

RESEARCH EXPERIENCE

NOVA Southeastern University, Dania Beach, Florida

2014 - 2015

Dr. Richard Spieler Laboratory: Ichthyology and Neurophysiology

Research Assistant

- Performed 50+ Hemilabyrinthectomy surgeries on goldfish
- Injected the goldfish with pre-allocated experimental dosages of caffeine
- Observed the behavior of goldfish post-surgery to ensure they demonstrated ataxia
- Measured angles of the goldfish in orientation to light and input data into an Excel spreadsheet

PUBLICATIONS

N.B. Goodson, **B.L. Brockhoff**, J.P. Huston, R.E. Spieler, Time-dependent bidirectional effects of chronic caffeine on functional recovery of the dorsal light reflex after Hemilabyrinthectomy in the goldfish *Carassius auratus*, *Neuroscience*, Volume 292, 30 April 2015, Pages 112-117, ISSN 0306-4522.

TECHNICAL SKILLS

Proficient in using Microsoft Office and standard office software

ADDITIONAL INFORMATION

SDI open water diving certification #464682

NAUI rescue scuba diving certification #R111R5D

Completed five full marathons

Able to speak functional Bemba (a north-eastern Zambian language)

REFERENCES

Dr. Mithriel Mackay, PhD

Executive Director & Director of Research and Education

Marine and Coastal Ecology Research Center Inc.

Email: Mithriel.mackay@gmail.com

Phone: (830)-688-9878

Marj Awai

Assistant Animal Curator

Aulani, A Disney Resort and Spa

Email: Marjorie.L.Awai@disney.com

Phone: (808)-216-8295

Dr. Sonia J. Rowley, PhD

Research Biologist

University of Hawaii at Manoa

Email: srowley@hawaii.edu

Phone: (808)-348-6224