

## **David Benton DuBose**

Coastal and Marine Laboratory, Florida State University, St Teresa, FL 32358

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### **Education**

M.S., Integrative Biology  
B.S., Biology

Oregon State University  
San Diego State University

2016 – 2019  
2003 – 2009

### **Research Experience**

#### *Ecologist*

United States Geological Survey, Corvallis, Oregon - July 2021 – June 2022

I worked in the contaminant ecology lab focused on mercury bioaccumulation in aquatic food webs. Multiple projects including Dragonfly Mercury Project in the national parks, Amphibian Research and Monitoring Initiative and EPA superfund projects.

#### *Biological Science Technician*

United States Geological Survey, Corvallis, Oregon - September 2020 – June 2021

I worked on contaminant ecology of macroinvertebrates, fish, zooplankton, algae and whole blood from mercury.

#### *Pollination Biology Technician*

Institute for Applied Ecology, Corvallis, Oregon - April 2020 – July 2020

I worked as a pollination field technician in central Oregon working on a habitat restoration project with an emphasis on interactions with native plants.

#### *Master's student*

Oregon State University, Corvallis, Oregon - May 2016 – June 2019

Master's Thesis: Flow homogenization and beaver activity interact to degrade aquatic invertebrate community structure.

#### *Biological Control and Quarantine Research Technician*

United States Department of Agriculture, Albany, California – July 2013 – May 2015

I worked on biological control experiments with insects for aquatic invasive plants found in freshwater water bodies in Northern California.

#### *Ecological Restoration Intern*

Presidio of San Francisco, National Resources Department, San Francisco, California - September 2012 – July 2013

I worked as a restoration intern educating, coordinating and running volunteer habitat restoration projects in the Presidio National Park in San Francisco, CA. I implemented adaptive management plans for habitat restoration and native plant monitoring. Conducted plant transects for inventory and monitoring of priority resources of concern

#### *Biological Survey Technician*

County of San Diego, Department of Environmental Health, San Diego, California - May– November 2011 & April– September 2012

I worked surveying and identifying mosquito populations throughout San Diego county to assess the populations of potential vectors of West Nile Virus and associated encephalitis diseases.

#### *Ethnobotanical Research Assistant*

San Diego State University MHIRT program, Trujillo, Peru - June - August 2010

I worked on a project collaborating with the local university developing scientific evidence for the efficacy of traditional medicinal plants against local bacterial strains for indigenous communities in the Andes of Peru.

### **Teaching**

#### *Graduate Teaching Assistant:*

Biology 211 Origins of life, energy transformations, plant and animal diversity - Fall 2016, Fall 2018, Summer 2018

Biology 212 Cell biology, organ systems, plant and animal physiology - Winter 2017, Summer 2017

Biology 213 Genetics, evolution, natural selection, and ecology - Spring 2019

For intro biology courses, I taught two undergraduate biology lab sections per week, attended lecture, and held office hours, created presentations covering course material, lead in-class discussions, created quizzes, graded assessments and scientific writing assignments.

Aquatic Entomology 477/577 - Winter 2018 & 2019

I taught two undergraduate/graduate level aquatic entomology identification sections per week, attended lecture, held office hours, created presentations including diagnostic pictures of features for identification for each order, created lab practicals, graded final aquatic specimen collections, organized field sampling trips, maintained equipment/supplies and lectured on Trophic Ecology in the main class.

#### *Guest Lecturer*

Aquatic Entomology 477/577 - Trophic Ecology of aquatic insects – February 13, 2020

### **Volunteer Positions**

#### *Eelgrass Restoration Lab Technician*

San Francisco State University, Romberg Tiburon Center - February - June 2015

Worked in a wetland restoration lab on projects across the San Francisco Bay in California. Identified estuarine macroinvertebrates for Living Shorelines Project, implemented experimental eelgrass treatments for Zostera Experimental Network, sampled eelgrass sediment core for microbial community analysis, and littoral seine net, opera and minnow trap sampling in San Francisco Bay.

### **Publications**

Bussmann, R., *et al.* (2011) Toxicity of medicinal plants used in Northern Peru. Journal of Ethnopharmacology. 137 (1): 121-140.