

ERICA M. DALE

(301) 642-1463 | ericadale@bren.ucsb.com | ericamarie9016.github.io | [GitHub](#) | [LinkedIn](#) | Santa Barbara, CA

EDUCATION

Master of Environmental Data Science (Expected June 2023)

Bren School of Environmental Science & Management – University of California, Santa Barbara

Capstone: Climate Futures for Ecohydrological Modeling of Emerging Fire Regimes in Central Coast California

Workshops: Customizing Quarto Websites with Sass & CSS, Data Science Blogs, Intro to Shiny Apps

Bachelor of Science in Biology, Concentration in Organismal Biology and Ecology (May 2016)

Towson University, Towson, MD

Honors: Latin Honors Cum Laude, Tri Beta Biological Honors Society

Projects: *Drinking Water Contamination across the U.S. Public Systems* (5/16), *Little Brown Bat's Survival Rate from White Nose Syndrome* (5/16), *Business Influence to Dredge the Chesapeake Bay* (12/15), *Maryland's Controversial Rain Tax* (12/15)

SKILLS AND CERTIFICATIONS

Technical: R/RStudio, Python, Git/GitHub, SQL, ArcGIS, VHF radiotelemetry, handheld GPS units, SAP/CRM

Additional Skills: Data Visualization, Geospatial Analysis and Remote Sensing, User Experience Design

Certifications: *Stream Water Monitoring*, Virginia Save Our Streams (9/19); *Intro to ArcGIS*, ESRI (4/16); *Wildlife Rehabilitation Training*, Virginia Fish and Wildlife Service (11/15); *Rabies Education Training*, Virginia Fish and Wildlife Service (11/15); *Open Water Scuba Diving*, PADI (8/15)

PROFESSIONAL EXPERIENCE

Chromatography/Mass Spectroscopy Specialist (5/21–6/22) | **Chemistry and Supplies Specialist** (2/21–5/21)

GT Resources, Phoenix, AZ

- Managed regional accounts in Canada focused on research lab relations and equipment needs support.
- Maintained technical knowledge of products, resources, and laboratory applications to solve customer equipment issues and needs.
- Curated quarterly business review statistics, visualizations of company performance, and presentations.

Biological Science Technician (Plants) GS-5 (5/20–9/20)

United States Fish and Wildlife Service (USFS), Stanislaus National Forest, CA

- Conducted field surveys; geolocated rare and invasive plants and collected environmental data.
- Uploaded point and polygon data to geodatabase, mapped and edited maps on ArcGIS.
- Manually eradicated invasive species with hand tools, returning to measure treatment efficacy.
- Developed new approach for trip-planning to reduce redundancy and gas usage.

Greenhouse and Orchid Specialist (4/18–12/18)

Potomac Petals and Plants, Potomac, MD

- Managed all aspects of horticultural care including environmental control, watering, and transplanting.
- Identified ongoing issues and curated list of objectives to rectify within greenhouse.
- Implemented methods to reduce loss of plants; researched, organized, and established plant specific fertilization schedule and pest management methods.
- Educated customers on plant variety, native plants, environmental landscaping options and plant care.

Greenhouse Associate (1/15–6/16)

Towson University Greenhouse, Towson, MD

- Oversaw the health of plants in 9 research and plant collection greenhouses.
- Increased efficiency with labeled plants specifying watering and fertilization needs.
- Supervised students and assisted with research projects and greenhouse volunteers.

-Continued-

RESEARCH EXPERIENCE

Botany Research Assistant, Dr. Beauchamp, Towson University (8/15–7/16)

- Assisted with multiple projects studying the invasive Wavyleaf Basketgrass, *Oplisenus undulatifolius* focused on invasive plant spread and control.
- Collected seeds in the field, exposed seeds to high temperature and prolonged saturation, and measured the successful germination in a controlled greenhouse setting.

Independent Researcher, Tropical Field Ecology in the Peruvian Amazon, Towson University (4/15–8/15)

The Effect of a Thicker Fern Canopy due to Large Mammal Defaunation on Seedling Density

- Developed a hypothesis and research model while at the remote Cocha Cashu Biological Research Station in Manu National Park and Biosphere Reserve.
- Collected data in rough terrain on light availability at different levels to understory plants, counted and identified seedlings, and analyzed data for significance.
- Created board presentation and documented findings in a research paper.

Mammalogy Research Assistant, Dr. Beck, Towson University (2/15–6/15)

- Identified and documented preserved invertebrate species using a high-powered microscope and taxonomic keys.
- Worked independently to track data as a supportive position studying ungulate impact on soil ecosystems.

VOLUNTEER AND COMMUNITY INVOLVEMENT

Urban Garden Volunteer – Keep Phoenix Beautiful, Phoenix, AZ (2/21–4/22)

Cared for plants and upkeep projects for the overall community garden property. Assisted with advertising and participating in educational programs and community volunteer days.

Bat Research Volunteer– Angelo State University, Big Bend National Park (7/19)

Set up large nets for bat catches, followed safety protocols to carefully collect and bag bats. Recorded species and gender; measured weight, wing dimensions, female gestation and active mammary glands.

Wildlife Reserve Volunteer – Wildlife Act, South Africa (10/17)

Used VHF radiotelemetry to track endangered species; collected geolocation and observational data. Learned the challenges of a wildlife refuge (technology needs, research management, liaison with local community).

Wildlife Rehabilitation Center Volunteer – Owl Moon Raptor Center, Barnseville, MD (7/16–3/20)

Managed a fundraising campaign to acquire a blood lead level machine. Acted as a step-in to maintain mews and cages, safely held raptors during exam and treatment, calculated food portions and prepared food.

AFFILIATIONS AND ACTIVITIES

Affiliations: The Wildlife Society, California Association of Environmental Professionals

Notable Travel: Solo road trip of the United States (4/19–9/19); South Africa, Botswana, Zimbabwe, Zambia (9/17–11/17); Philippines (12/15–1/16); Peruvian Amazon (5/15–6/15)