

Erica M. Dale

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EDUCATION

Master of Environmental Data Science (expected June 2023)

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

Leadership/Involvement: NCEAS Roundtable Committee Member

Bachelor of Science in Biology, concentration of Organismal Biology and Ecology, 3.8 GPA

Towson University; Towson, MD (04/2016)

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

SKILLS, CERTIFICATES, AND ACTIVITIES

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

Certifications: *Stream Water Monitoring*, Virginia Save Our Streams (09/2019)

Intro to ArcGIS, ESRI (04/2016)

Wildlife Rehabilitation Training, Virginia Fish and Wildlife Service (11/2015)

Rabies Education Training, Virginia Fish and Wildlife Service (11/2015)

RELEVANT EXPERIENCE

Chromatography/Mass Spectroscopy Specialist – GT Resources, Phoenix, AZ (05/2021-06/2022)

Chemistry and Supplies Specialist (02/2021-05/2022)

- Account management 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 QBR statistics, visualizations, and presentations.

Biological Science Technician (Plants) GS-5 – USFS, Stanislaus National Forest, CA (05/2020-09/2020)

- Conducted field surveys; geolocated rare and invasive plants and measured environmental data.
- Uploaded point and polygon data to geodatabase, mapped and edited ArcMap data.
- 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 – Potomac Petals and Plants; Potomac, MD (04/2018-12/2018)

- 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 – Towson University Greenhouse, Towson, MD (01/2015-06/2016)

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

PROJECTS

Botany Research Assistant – Dr. Beauchamp, Towson University (08/2015-07/2016)

- Assisted with multiple projects studying the invasive Wavyleaf Basketgrass, *Oplismenus 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 Research; Tropical Field Ecology in the Peruvian Amazon, Towson University (04/2015-08/2015)

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

- Developed a hypothesis and research model while at a remote research center in Manu National Park.
- 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.

Mammology Research Assistant – Dr. Beck, Towson University (02/2015-06/2015)

- Identified and documented invertebrate species preserved in alcohol using a high-powered microscope and taxonomic keys to support a study on ungulate impact to soil ecosystems.

VOLUNTEER/COMMUNITY INVOLVEMENT

Urban Garden Volunteer – Keep Phoenix Beautiful, Phoenix, AZ (02/2021-04/2022)

- Plant care and upkeep projects for the overall community garden property.
- Assist with advertising and participating in educational programs and community volunteer days.

Bat Research Volunteer– Angelo State University, Big Bend National Park (07/2019)

- Assisted Dr. Ammerman and graduate students setting up large nets and periodically inspecting for bats.
- Followed safety protocols to carefully collect bats from the nets and bag.
- Identified species and gender; measured weight, wing dimensions, female gestation and active mammillary glands; recorded all data.

Wildlife Reserve Volunteer – Wildlife Act, South Africa (10/2017)

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

Wildlife Rehabilitation Center Volunteer – Owl Moon Raptor Center, Barnseville, MD (07/2016-03/2020)

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