**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** **(UCSB)**

Highlighted Coursework: Statistics for Environmental Data Science, Geospatial Analysis & Remote Sensing, Data Visualization and Communication, Machine Learning, Modeling Environmental Systems

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

Research: Botany Research Assistant, Dr. Beauchamp (8/15–7/16); Tropical Field Ecology in the Peruvian Amazon, Independent Research (4/15–8/15); Mammalogy Research Assistant, Dr. Beck (2/15–6/15)

Employment: Greenhouse Associate – Towson University Greenhouse (1/15–6/16)

**SKILLS & CERTIFICATIONS**

**Technical:** R/RStudio, Python, Git/GitHub,SQL,ArcGIS, VHF radiotelemetry, handheld GPS units, SAP/CRM  
**Knowledge Expertise:** Data Visualization, Geospatial Analysis and Remote Sensing, User Experience Design, Organization, Multidisciplinary Problem Solving, Educational Outreach   
**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)

**DATA & PROFESSIONAL EXPERIENCE**

**Data Scientist and Design Manager – UCSB Master’s Capstone Project** (1/23–present)

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

* Constructing climate scenarios utilizing data ranges from climate models to explore extreme weather.
* Creating public facing interactive visualizations to educate the community on future climate scenarios.
* Developing a Shiny app that automates user construction of scenarios to generate daily variables values.

**Chromatography/Mass Spectroscopy Specialist** (5/21–6/22) l **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 and laboratory applications to support customer needs.
* Curated quarterly business review statistics and graphs of company performance in excel.

**Biological Science Technician** (5/20–9/20)

**U.S. Fish and Wildlife Service (USFS)**, Stanislaus National Forest, CA

* Conducted field surveys; geolocated rare and invasive plants and recorded environmental data.
* Uploaded point and polygon data to geodatabase, mapped and edited maps on ArcGIS.
* Organized trip-planning for field work to reduce redundancy and gas usage.

**ADDITIONAL EXPERIENCE, AFFILIATIONS, & ACTIVITIES**

**Volunteer Experience:** Urban Garden Volunteer – *Keep Phoenix Beautiful, AZ* (2/21–4/22); Bat Research Volunteer – *Angelo State University, Big Bend National Park* (7/19); Wildlife Reserve Volunteer – *Wildlife Act, South Africa* (10/17); Wildlife Rehabilitation Center Volunteer – *Owl Moon Raptor Center, MD* (7/16–3/20)

**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)