

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) | **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)