

LINDSAY SMITH

lbuedel@asu.edu | 480-586-0106 | [Portfolio](#)

EDUCATION

2026 - present | M.S. in Biological Data Science

Arizona State University, School of Mathematical & Natural Sciences

2011-2015 | B.S. in Applied Biological Science

Arizona State University, College of Letters & Sciences

PROFESSIONAL EXPERIENCE

2023-present | Geospatial Data Researcher (Contract Field Scout)

Trails Offroad, Remote

2023 | Field Volunteer, Walnut Creek Center for Education & Research

Northern Arizona University, Flagstaff, AZ

2020-2023 | Science Department Chair

Sierra Linda High School, Phoenix, AZ

2016-2023 | Instructor of AP Biology, Biology, Conceptual Physical Sciences

Sierra Linda High School, Phoenix, AZ

2013-2015 | Lab Volunteer, Gerber Marine Science Lab

Arizona State University, Tempe, AZ

TECHNICAL PROJECTS

Predictive Modeling of Complex Systems

Developed a binary classification model using XGBoost & Random Forest to predict outcomes in a dataset of 15,000+ entries

Statistical Inference & Hypothesis Testing

Performed exploratory data analysis & conducted A/B testing & Hypothesis testing to validate trends within large datasets.

Multivariate Regression Analysis

Built & validated Multiple Linear Regression & Logistic Regression models to analyze relationships between complex variables

SKILLS & CERTIFICATIONS

Advanced Data Analytics | 2025

Google Career Certification

Programming & Databases:

- Python
- R
- SQL

Modeling & Statistics:

- Machine Learning (XGBoost/Random Forest)
- Statistical Inference & Regression

Field & Lab:

- Remote Data Collection
- Experimental Design
- Geospatial Analysis

RESEARCH INTERESTS

Computational Ecology & Genomics

Understand the adaptation and resilience of marine populations to changing ocean conditions.

Data Science for Sustainability

Ecological data science & conservation and AI/ML applications for climate resilience.

Public Health & Epidemiology

Spatial & predictive epidemiology and AI/ML applications in public health.