Benjamin Lyke

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GitHub Portfolio – https://benjaminlyke.github.io/BenjaminLyke/

EDUCATION

University of North Texas, Denton, TX
- M.S. in Geography, Focus on Geospatial Data and Analytics   Graduated May 2023
  - GPA: 4.0
  - Obtained Graduate-Level GIS Certification
- B.S. in Geography, Minor in Biology   Graduated August 2021

EXPERIENCE

Commission Shift, Remote Work   November 2021–April 2022; March 2024-Present
Contract Data Analyst (March 2024-Present)
- Analyzing data to create a new system for enforcing permits for methane venting and flaring among Texas oil and gas wells.
- Comparing data from the Visible Infrared Imaging Radiometer Suite (VIIRS) sensor, Production Reports from the Railroad Commission (RRC), and Permitting Reports from the RRC through a series of spatial or attribute-based joins.

Contract GIS Geospatial Analyst (November 2021-April 2022)
- Analyzed and researched the location and proximity of orphaned and inactive oil and gas wells in Texas from multiple databases, including more than 110,000 location data points.
- Focused on demographic-based disparities in locations of potentially unmaintained oil and gas wells as well as identifying locations of wells for which the RRC could not provide location data.

San Giuliano Archaeological Research Project, Lazio, Italy   Summers 2019, 2022, 2024
Assistant Laboratory Director (Summer 2024)
- Coordinated with the laboratory director to train and oversee 29 field school students in the registration, documentation, and analysis of artifacts in preparation for conservation.
- Successfully directed two seasons of artifacts through the 9 stations of the laboratory while coordinating and collaborating with specialists such as osteologists, ceramicists, ancient DNA analysts, isotope analysts, and conservationists.

Graduate Researcher and Museum Liaison (Summer 2022)
- Asked to return as a graduate student to facilitate GIS mapping, LiDAR data collection, and supervising undergraduate student researchers.
- Managed communication and meetings with the local museum curator for the storage and analysis of artifacts.

Student Researcher (Summer 2019)
- Excavated artifacts at medieval, Etruscan, and Villanovan sites as an undergraduate student.
- Cleaned and registered items in the laboratory for the purpose of analysis and conservation.

University of North Texas, Denton, TX   Fall 2019-May 2023
Lab Instructor for Intro to Geology (Fall 2022–Spring 2023), Lead Lab Instructor (Spring 2023)
- Taught three lab sections and 75 students per semester through lectures and in-class lab

activities.
- Promoted to a Lead Lab Instructor by the supervising professor for the Spring 2023 semester.

TA for Intro to GIS (Spring 2022)
- Assisted an online course with roughly 120 students.

UNT Media Library Courier and Student Supervisor (Fall 2019-Spring 2022)
- Communicated with other university libraries through Inter-Library Loans to organize movement of media across universities.
- Directed accessibility projects and materials maintenance while supervising the performance of other student workers.

Farm Labor, Sumner, TX   Summers 2013-Present
   Farmhand
- Cut, baled, stacked, and delivered loads of hay on my grandfather's 85-acre farm in east Texas.
- Repaired tractors and cars and performed maintenance on the house and barn.

SKILLS
- Esri Products (ArcMap, ArcGIS Pro, ArcGIS Online, 3D Analyst, Business Analyst, ModelBuilder)
- QGIS
- Data processing (PowerBI, Tableau, Python, SQL, R, Google Cloud Platform (GCP))
- Field work (Archaeology, Farm Labor, Field Methods and Mapping)

COURSES
- Intro/Advanced Python Programming
- LiDAR
- Business GIS
- Health GIS
- Digital Image Analysis
- Harvesting, Storing, and Retrieving Data
- Field Methods and Mapping

LANGUAGES
- Italian, basic conversation

INTERESTS
- Baking, Tennis, Dungeons and Dragons (D&D), Piano