

Benjamin C. Lyke

GIS Specialist with a master's degree in geography focusing on Geospatial Analytics and a graduate level GIS certification. Focused on using my GIS and Data analytics to push for equitable situations in terms of the environment, health, and urban practices.

EDUCATION

M.S. Geography, Geospatial Data and Analytics **University of North Texas, Denton TX**

2023

GPA 4.0 - Obtained Graduate level GIS certification.

B.S. Geography, minor in Biology **University of North Texas, Denton TX**

2021

EXPERIENCE

University of North Texas, Denton, TX — Teaching Assistant

January 2022 - May 2023

Lead Lab Instructor (Spring 2023); Lab Instructor for Intro to Geology (Fall 2022–Spring 2023); TA for Intro to GIS (Spring 2022)

- Taught three lab sections and 75 - 120 students per semester through lectures and in-class lab activities.
- Promoted to Lead Lab Instructor by the supervising professor for the Spring 2023 semester.

San Giuliano Area Research Project, Barbarano Romano, Italy — Graduate Researcher and Museum Liaison

Summers 2019 and 2022

Graduate Researcher and Museum Liaison (Summer 2022); Student Researcher (Summer 2019)

- Excavated artifacts at medieval, Etruscan, and Villanovan sites for further study in the laboratory.
- Asked to return as a graduate student to assist with GIS, LiDAR, and leading undergraduate student researchers.
- Managed communication and meetings with the local museum curator for the storage and analysis of artifacts.

Central NY Area (Ithaca / Syracuse)

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[Benjamin Lyke - Portfolio](#)

SKILLS

Esri Products (ArcMap, ArcGIS Pro, 3D Analyst, Business Analyst, ModelBuilder)

QGIS

Microsoft Office Suite

Data processing: PowerBI, Tableau, Python, SQL, R, Google Cloud Platform (GCP)

Teaching Proficiency - Teaching Assistant

Customer Service - Media Library Supervisor

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

Commission Shift, Laredo, TX — GIS Analyst

November 2021 - April 2022

- Analyzed and researched the location and proximity of orphaned and inactive oil and gas wells in Texas.
- Focused on demographic-based disparities in locations of potentially unmaintained oil and gas wells and identified locations of wells for which the Railroad Commission (RRC) could not provide location data.
- Worked from multiple databases provided by the RRC and actively analyzed more than 110,000 location data points.

University of North Texas Media Library, Denton, TX — Courier and Student Supervisor

August 2019 - January 2022

- Coordinated with other university libraries, directed writing captions for movies and documentaries, repairing broken consoles and systems, and coordinating between supervisors and student workers.

Family Farm, Sumner, TX — Farmhand

Summer 2013 - Present

- Cut, baled, stacked, and delivered loads of hay, and repaired farm equipment on my grandfather's 85-acre farm in east Texas.

PROJECTS

Changes in Elevation and Vegetation of Greenbelt Park During a Flooding Period: A LiDAR-based Analysis — LiDAR

Analyzed changes in elevation and presence of vegetation after a 6-year closure due to flooding in Greenbelt Park in Denton, Texas.

An Analysis of Supervised and Unsupervised Classifications: Rayzor Ranch Over Time — Digital Image Analysis

Compared the accuracy of supervised and unsupervised classifications using imagery from an 8-year period of increased urbanization.

Water Quality Standards and Waterborne Diseases in the United States: A State Level Analysis — Health GIS

Conducted a GIS analysis of waterborne diseases in US states compared to state water quality standards using CDC data.

Oil Lacking Oversight? An Analysis of Orphaned and Inactive Oil Wells in Texas — Advanced Geospatial Data Analytics

Conducted a GIS analysis of orphaned and inactive oil wells in Texas comparing groundwater contaminated with byproducts of oil and gas.

LANGUAGES

Basic French

Basic Italian