

KEY QUALIFICATIONS

- **Leadership & Collaboration:** Proven ability to lead projects strategically, develop roadmaps, mentor teams, manage risk, foster collaboration, allocate resources, and coordinate with stakeholders.
- **Programming, Machine Learning & Automation:** Proficient in Python (numpy, pandas, scikit-learn, scipy, arcpy, git, geopandas, matplotlib, etc.), experience with R, BASH/Shell, SQL, IDL, MATLAB.
- **Creative Problem Solving:** Skilled in data integration, numerical modeling, and experimental analysis with a knack for contextualizing results in meaningful ways to benefit internal and external stakeholders.
- **Geospatial Analysis, Database Management & Data Integration:** Expert in GIS principles, data (e.g., GeoTiff, NTIF, LAS/LAZ, GeoJSON, shape files, etc.) and tools (ArcGIS Pro, Agisoft, ENVI, QGIS, GDAL, etc.).
- **Remote Sensing:** Expertise in collecting and analyzing panchromatic, multispectral, hyperspectral, and LiDAR/DEM data.
- **Visualization & Communication:** Skilled in writing, cartography, and creating visual narratives using Illustrator, Photoshop, and the Microsoft Suite for technical and non-technical audiences.

WORK EXPERIENCE

Geospatial Analyst & Remote Sensing Scientist

University of Arkansas | 2020 – Present

- Led multi-disciplinary remote sensing projects from inception to publication, including project planning, data acquisition, quality control, and cross-team coordination.
- Accelerated geospatial analysis by developing computational algorithms, improving analytical efficiency by a factor of ~5 while reducing error.
- Built and maintained 100s of GB geospatial datasets via ETL workflows for analysis and visualization at over 100 km² scales for 10+ concurrent research projects.
- Integrated subsurface, field, and remotely sensed data with theory and numerical models supporting scientific site evaluation in 20+ field locations around the world.
- Disseminated research outcomes to diverse audiences through 12 peer-reviewed publications and presentations at 10+ international conferences.

Graduate Researcher & Teaching Assistant

Western Washington University | 2018 – 2020

- Evaluated potential biosignature preservation on Mars, publishing results in a peer-reviewed journal.
- Team member for NASA's Perseverance and Curiosity Rovers, advising on exploration and strategy.
- Taught six quarters of introductory geology courses to 300+ students.

Undergraduate & Post-Baccalaureate Researcher

University of Texas at Austin | 2014 – 2018

- Discovered evidence of an ancient northern ocean on Mars; first-authored peer-reviewed publication.
- GIS and field analysis of hurricane disaster mitigation for barrier island communities in Texas.

EDUCATION

Ph.D. in Geology (Geospatial Analytics & Comparative Planetology)

University of Arkansas | 2025

M.Sc. in Geology (Remote Sensing)

Western Washington University | 2020

B.Sc. in Geosciences (Remote Sensing)

University of Texas at Austin, Jackson School of Geosciences | 2017

HONORS & AWARDS

- Doctoral Academy Fellowship, University of Arkansas | 2020 – 2024
- Numerous academic scholarships and awards for leadership and inclusion initiatives | 2016 – 2024