

Parker LeClair

Geologist – GIS Graduate Student

CONTACT

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EDUCATION

M.S. GIS-Technology
University of Arizona
2025-Present

Intro to CS and Programming
using Python
M.I.T. Online
2025-Present

B.A. Geology
SUNY Plattsburgh
2019-2024

Geology Field Camp
University of Missouri
Summer 2023

SKILLS

Geospatial Analysis
Data Management
Technical Communication
Field Data Collection
3D Modeling
Drone Surveying
Operational Safety

VOLUNTEER EXPERIENCE

US Forest Service
Abandoned Mines Inventory
and Hazard Assessment
Tonto Natl. Forest, AZ - 2024

SUMMARY

Geologist and GIS graduate student building technical expertise in spatial data analysis and workflow development. Experienced in field-based mapping and volumetric analysis using drone point clouds, R, and GIS to reconcile modeled geology with mined production data. Seeking to transition into a GIS-focused role applying geoscience knowledge to spatial analysis and data-driven problem solving.

PROFESSIONAL EXPERIENCE

Imerys Performance Minerals

2024-Present - Geologist

2021-2023 - Intern/Sampling Technician

- Coordinate drilling, sampling, mapping, and grade control to support mine planning and resource optimization.
- Scripted data processing and analysis using R within a reconciliation workflow to integrate UAV survey and GIS data to verify geologic model accuracy and inform production planning.
- Collaborate with geology, operations, and safety teams to inform short and long term mine development.

United States Geological Survey

Summer 2024 - USGS/NAGT Field Mapping Intern

- Collected lithologic and structural field data to assist in mapping the extent and characteristics of a newly identified fault.
- Used ArcGIS Pro and Survey123 to record field observations, manage GPS-based datasets, and create a preliminary geologic map.
- Surveyed bedrock lithology and identified geomorphic and hydrologic features indicative of faulting in collaboration with a USGS emeritus geologist.

University of Missouri

Summer 2024 - Geology Field Camp Teaching Assistant

- Supported instructors in delivering field geology curriculum with emphasis on mapping methods, safety, and student engagement.
- Prepared field materials, maintained equipment, and guided students in geologic interpretations and data management.
- Promoted adaptable thinking and situational awareness during fieldwork in varied terrain.