Emma Kerins
55 N. Melwood Ave. Tucson, AZ 85745
eekerins@arizona.edu 406-209-4342

Research Interests

Structural controls on ore deposits and their associated alteration and mineralization assemblages for exploration purposes.

Education

Degree	Field	Institution	Year Granted
B.S., Honors (3.73 GPA)	Earth Sciences - Geology	Montana State University	November, 2020
Minor	Geographic Information Sciences (GIS)	Montana State University	November, 2020
Minor	Hispanic Studies	Montana State University	November, 2020

Work Experience

Ethos Geological: Field Geologist and Project Manager (September 2021 - Present)

Dynamic position with an exploration services company fostering a diverse set of skills. Project management responsibilities include designing, organizing, and leading soil sampling and claim staking programs, diamond/RC drill programs, and mapping campaigns. Representative experience includes:

Drill Programs and Core Logging

- **Corcoran Canyon, NV**: Managed drill site logistics, core logging of an epithermal vein system, and client communication
- **Kay Mine, AZ**: Conducted core logging of a VMS system, including data synthesis using XRF and Terraspec for mineral pathfinding
- **Spring Peak, NV**: Managed logging program, lab shipments, staffing, training, and conducted core logging of epithermal vein system

Project Geologist

- **Ruby Graphite, MT**: Conducted field mapping, soil sampling, planned geophysical surveys for anomaly detection and targeting, and planned drill holes

Soil Sampling

- **Republic, WA**: Sampled large grid area for gold geochem anomaly over multiple days in snowy conditions
- **Fluorite Ridge, NM**: Designed soil grid to target fluorite and managed progress remotely

Claim Staking

- **Hayden, ID**: Helicopter supported ski access claim staking with a focus on safety and team communication in hazardous environments
- **Sheep Creek, MT**: Directed multi-phase staking programs under tight deadlines
- **Tormey, ID**: Independently staked claims to secure client property continuity

Field Mapping

- **McCabe, AZ**: Investigated a variety of mineralization styles including polymetallic Pb-Zn veins, Au-quartz veins, and Cu-veins. Mapping included collecting structural measurements for interpretation and targeting.
- **Monument, MT**: Idaho Copper Province (IOCG-type deposit)
- **Hayden, ID**: Idaho Copper Province (IOCG-type deposit)

Technical Report writing and data synthesis

- Authored NI 43-101 reports, incorporating field results, assays, and geologic interpretations

Montana State University:

Geologic Research Field Assistant (Summer 2020)

- Collected rock samples and geologic data to differentiate Huckleberry Ridge Tuff units.

GIS Research Assistant (Fall 2020)

- Identified and reconciled quadrangle map discrepancies of Yellowstone National Park using GIS and field observations.

Field and Industry Related Certifications

Certification	Accrediting Body	Status	Year Granted
OSHA General Industry Training	U.S. Dept. of Labor	Active	November, 2021
MSHA New Miner Safety Training	U.S. Dept. of Labor	Active	June, 2023
Wilderness First Responder	SOLO Wilderness Med	Active	March, 2024

Industry-Related Skills and Software

- 3D Modeling:Blender, Leapfrog
- GIS: QGIS, mapping and spatial analysis
- NI 43-101 Technical Reporting
- Oriented Core
- Geophysical Survey Tools: GEM-2 Ski Ground EM
- Instruments: XRF and Terraspec handheld devices