

Hayley Karns
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CURRICULUM VITAE

EDUCATION

Utah Valley University | Orem, UT | AUGUST 2021-CURRENT

Bachelors of Science in Geology, Minor in Outdoor Recreation

Certificate in Geographic Information Systems

RESEARCH AND PRESENTATIONS

AGU Annual Meeting, Dec 2024

Bryant, D.S, **Karns, H.N**, Stearns, M.A, Garber, J.D, *Deformation-enhanced diffusive loss of titanium in quartz during greenschist-facies crystal-plastic deformation, Wasatch Fault Zone, UT*

AGU Annual Meeting, Dec 2024

Bunds. M.P, Stearns M.A, McKean, A, Toke, N. A, Conger, A, **Karns, H.N**, Saunders, E, Limb, E. *Differential Uplift of the Uinta-Cottonwood Arch on the Salt Lake City Segment of the Wasatch Fault Zone, USA, and Possible Implications for Wasatch Fault Structure*

Utah Valley GIS Symposium, Sep 2024

Karns, H.N, Bryant. D.S, Olson, M, *A Rock Glacier Inventory of Utah*

Utah Geospatial Applications Symposium April 2024

Karns, H.N, Bryant. D.S, Olson, M, *A Rock Glacier Inventory of Utah*

Utah Conference for Undergraduate Research

Karns, H., Bryant, D., Christensen, N., David Kirby, Sarah Marchant, Emmaline Saunders, Hannah Thomas, Alessandro Zanazzi, Dan Cavan, Daniele Ghiretti *Using Carbon and Nitrogen Stable Isotopes to Determine the Diet Composition of Ground beetles (Coleoptera: Carabidae) in Provo Canyon, Utah*

FUNDING

Fall 2024 – URSCA Dissemination Grant, SAC Dissemination Grant

Spring 2024 – URSCA Research Grant \$5,000

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AWARDS AND HONORS

2023-2024 Dean's List

SERVICE AND COMMUNITY INVOLVEMENT

Member of the American Geophysical Union

Member of the Geological Society of America

RESEARCH SKILLS AND EXPERIENCE

Analytical and Laboratory

- Scanning Electron Microscopy – SE, BSE, CL imaging and EDS element analysis and mapping
- Optical Microscopy (transmitted & reflected)

Field

- Structural mapping and strain analysis
- Lithologic mapping
- Igneous and metamorphic petrology

Scientific Software

- ArcGIS Pro – geospatial analysis and visualization
- Google Earth Pro – digitization and geospatial analysis
- Adobe Illustrator & Photoshop – data visualization and figure drafting
- Isoplot and IsoplotR – Ti thermometry and geochronology
- Stereonet – structural data plotting and analysis
- RStudio – data analysis and visualization
- Microsoft Office Suite – Word, Excel, Powerpoint