

J. Daniel Quick

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Education

Missouri University of Science and Technology

PhD in Geology

Emphasis: Structural geology, geologic mapping, and stratigraphy
Topic: Constraining the Timing of Deformation and the Provenance of Cretaceous Synorogenic Foreland Deposits in the Southern Sevier Fold and Thrust Belt, Southwest Utah

Est. graduation date: Fall 2025/Spring 2026, Status: ABD

In Progress

GPA: 4.0/4.0

Missouri University of Science and Technology

Master of Science in Geology

Thesis: The role of tectonic inheritance, plate-reorganization, and magma flare-ups in the evolution of the Sevier Orogeny

Dec. 2020

GPA: 4.0/4.0

Missouri State University

Bachelor of Science in Geology (*summa cum laude*)

Honors research project: Petrology and geochemistry of the Kneeling Nun Tuff

Dec. 2018

GPA: 3.9/4.0

Experience

Staff Geologist—Rocksmith Geologic Engineering

- Performed analysis for minerals resource exploration
- Performed field work, GIS analysis, and data review related to underground mine stability
- Performed hydrogeology field sampling and GIS analysis

Sept. 2024-present

Principal Geologic Mapper—USGS EdMap Grant

- Lead field geologist in USGS funded mapping campaign, Iron Springs Mining District, Utah
- Instructed and mentored undergraduate field assistants in field geology best practices
- Utilized remote sensing data and supervised and unsupervised classification to supplement field data collection

2021, 2022, 2023

Graduate Teaching and Research Assistant

- Instructor for structural geology lab, physical geology lab, and field methods.
- Conducted field and lab-based research

2019-2024

Exploration Geology Intern: Freeport McMoran, Bagdad Mine

- Assisted in planning core drilling campaign in Cu-porphyry system with a >\$1 million budget
- Logged core and rock chips for lithology and alteration
- Conducted safety audits of core drilling rigs

Summer 2022

Imperial Barrel Award Competitor at Missouri S&T

2020

- Member of a diverse team representing Missouri S&T as part of an international petroleum exploration competition. Placed 3rd in the midcontinent division.
- Tasks completed include structural analysis of field area, interpretation of subsurface geology through 3D seismic, planning and conducting seal analysis of subsurface faults, identifying prospects based on subsurface structure and the principles of sequence stratigraphy, drafting figures for final presentation.

Undergraduate research at Missouri State University

2017-2018

- Conducted fieldwork, geochemical, petrographic, and electron microprobe analysis to characterize the Kneeling Nun Tuff. Presented results at two international conferences.

Scholarship

Published Papers

- Quick, J.D.**, Hogan, J.P., 2022, Practical remote sensing data analysis for efficient geological field mapping: An example from the southwest portion of the Three Peaks 7.5' quadrangle, SW Utah, USA: *Rocky Mountain Geology*, v. 57 no. 2. <https://doi.org/10.24872/rmgjournal.57.2.117>.
- Quick, J.D.**, Hogan, J.P., Wizevich, M., Obrist-Farner, J., Crowley, J., 2020, Timing of deformation along the Iron Springs Thrust, southern Sevier fold-thrust Belt, Utah, USA: Evidence for an extensive thrusting event in the mid-Cretaceous: *Rocky Mountain Geology*, v.55, no. 2. <https://doi.org/10.24872/rmgjournal.55.2.75>.

Selected Conference Presentations

- Quick, J.D.**, Hogan, J.P., Wizevich, M.C., 2023, The Iron Springs Formation: Evidence for an abrupt episode of thrusting, synorogenic sedimentation, and volcanism during the mid-Cretaceous in Southwest Utah: 2023 GSA Penrose Conference; Developing a new paradigm for the mid-Cretaceous to Eocene North American Cordillera: An obliquely convergent plate margin.
- Quick, J.D.**, Hogan, J.P., 2021, Preliminary results of geologic mapping of the southern portion of the Three Peaks 7.5' quadrangle, Iron County Utah: Geological Society of America Abstracts with Programs.
- Quick, J.D.**, Hogan, J.P., Wizevich, M., Coleman, D., 2021, Punctuated orogenic activity: Evidence for a 100 Ma episode of Sevier deformation in southwest Utah: Geological Society of America Abstracts with Programs.
- Quick, J.D.**, Hogan, J.P., Wizevich, M., Obrist-Farner, J., Crowley, J., 2020, The role of tectonic inheritance, plate-reorganization, and magma flare-ups in the evolution of the Sevier Orogeny: Geological Society of America Abstracts with Programs, v. 52, no. 6. doi: 10.1130/abs/2020AM-357927.
- Quick, J.D.**, Michelfelder, G. S., Benz, B. E., 2018, Textural and geochemical variation of the Oligocene Kneeling Nun Tuff, Mogollon-Datil Volcanic Field, New Mexico: Geological Society of America Abstracts with Programs, v.50, no. 6. doi: 10.1130/abs/2018AM-322520.
- Quick, J.D.**, Sundell, T., Michelfelder, G. S., Cruzan, J. D., O'Dowd, C. L., Benz, B. E., 2017, The petrology and geochemistry of the Kneeling Nun Tuff, Mogollon-Datil Volcanic Field, New Mexico: Geological Society of America Abstracts with Programs, v. 49, no 6. doi: 10.1130/abs/2017AM-305932.