

Joshua R. Malone

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Updated: August 2021

EDUCATION

University of Texas at Austin, Austin, TX, August 2020 – Present (expected 2025)

Ph.D. Geological Sciences, Jackson School of Geosciences

Advisor: Dr. Brian Horton

GPA: 4.00

Augustana College, Rock Island, IL, 2020

Bachelor of Arts (Cum Laude), Double Major in Geology and Geography

GPA: 3.7

University of Auckland, Spring Semester, New Zealand, 2019

HONORS & AWARDS

Geology Graduate with Distinction, Augustana College (2020)

Joseph M. Hoare Prestigious Merit Scholarship in Geology (2020)

Augustana College Dean's List (8/8 Terms)

Top Field Camp Student, Illinois State University (2019)

SGD/SEPM Student Poster Winner (2018 GSA Annual Meeting)

Lucken Geology Scholarship, Augustana Geology Department merit scholarship (2017-2020)

Eagle Scout, Boy Scouts of America (2016)

RESEARCH INTERESTS & COURSEWORK

Interests: Sedimentology, stratigraphy, provenance studies, geochronology, tectonics and sedimentation, structural geology

Coursework: Carbonate/Evaporite Depositional Systems, Foreland Basins, Geostatistics, Marine Tectonics, Seismic Structural Analysis, Dynamic Field Stratigraphy, Python.

RESEARCH EXPERIENCE

Research Assistant, University of Texas at Austin

Projects:

1. *Late Paleozoic basin evolution in northern Patagonia (PhD dissertation)*
2. *Provenance and Stratigraphic Correlation of the Oligocene White River Group in the Bighorn Mountains, Wyoming*
3. *Detrital zircon and Lu/Hf geochronology of late Paleozoic strata in the Malvinas (Falklands) Islands*

Augustana College Senior Inquiry

Project: *Detrital Zircon Provenance of Quartzite Gastroliths in the Jurassic Morrison Formation, Wyoming, USA*

Research Assistant for Dr. Lorna Strachan, School of Environment, University of Auckland, New Zealand

Project: *Sedimentary architecture of co-seismic turbidites distributed along the Hikurangi margin from Kaikoura 2016 EQ*

PROFESSIONAL EXPERIENCE

2021 **NAGT Intern**, United States Geological Survey, Denver, CO

2018-2020 **Geology Intern**, United States Army Corps of Engineers, Geotechnical Branch – Rock Island, IL

TEACHING EXPERIENCE

2021 **Teaching Assistant**, GEO 420K, Introduction to Field and Stratigraphic Methods (16 weeks)
University of Texas at Austin, Jackson School of Geosciences

2019 **Teaching Assistant**, GEOL 105 – Physical Geology in the Rocky Mountains (2 weeks)
Augustana College, Geology Department

Teaching Assistant, GEOL 101, Introduction to Geology (10 weeks)
Augustana College, Geology Department

FIELD EXPERIENCE

2021 Central Texas, teaching assistant (two one-day field trips)

British Columbia, field assistant (2 weeks)

Cordilleran foreland basin, Utah, Wyoming, Colorado (5 days)

2020	Guadalupe/Sacramento Mountains, student participant (2 weeks) Bighorn Mountains, research collaboration (1 week)
2019	Bighorn Mountains, Absaroka Range, Black Hills, teaching assistant (2 weeks) Geology Field Camp, Illinois State University, student participant, (4 weeks) Death Valley, CA, student participant (2 weeks)
2018	Bighorn Basin, WY and Uinta Mountains, UT, undergraduate thesis (1 week)

PROFICENCIES AND SHORT COURSES

- Evaluation of Tight-Shale Reservoirs: Sedimentologic, Stratigraphic, and Geochemical Tools to Identify Production Sweet Spots (2020 AAPG)
- Detrital Zircon Geochronology Short Course through the University of Arizona (2019 GSA).
- Proficiency with computer programs (Python, ArcGIS, Adobe Photoshop/Illustrator, CAD, RockWorks, Clino).
- Introductory language experience in Swedish and Spanish.

VOLUNTEER AND SERVICE

2020	Session Chair, Geological Society of America Annual Meeting, Recent Advances in Stratigraphy
2018-2020	Counselor/Volunteer Coordinator, Camp Kesem <ul style="list-style-type: none"> • Served as a camp counselor (2018, 2019), organized monthly meetings and trainings for counselors, recruited new counselors, and fundraised year-round.
2016-2020	Vice President/Member, Delta Omega Nu Fraternity President/Member, Udden Geology Club, president (2019-2020) Member, Geography Club
2016	Eagle Scout, Boy Scouts of America

INVITED TALKS

2021	United States Geological Survey, Denver, Colorado Neville Public Museum, Green Bay, Wisconsin SoftRock Seminar, University of Texas at Austin
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PUBLICATIONS

Malone, J.R., Strasser, J.C., Malone, D.H., D'Emic, M.D., Brown, L., and Craddock, J.P., 2021, Jurassic dinosaurs on the move: Gastrolith provenance and long-distance migration: *Terra Nova*. Vol. 33, p. 375-382, doi:[10.1111/ter.12522](https://doi.org/10.1111/ter.12522).

ABSTRACTS

- Dombrowski, A., Hillenbrand, I., **Malone, J.R.**, Warrell, K., Gilmer, A.K., Morgan, L., 2021, USGS GEOCHRON: A New Database of USGS Geochronologic Data: Geological Society of America Abstracts with Programs. Vol. 53, No. 6, doi: 10.1130/abs/2021AM-365546.
- Malone, J.R.**, Horton, B.K., Dalziel, I.W., Padilla, R., 2021 Detrital Zircon U-Pb and Lu-Hf Geochronology of Paleozoic Basin Fill in the Falkland (Malvinas) Islands: Implications for basin evolution and Gondwana Reconstructions: JSG Research Symposium Abstract, Austin, TX.
- Strachan, L.J., Orpin, A.R., Howarth, J.D., Bostock, H.C., Barnes, P.M., Tickle, S., **Malone, J.R.**, Maier, K.L., Mountjoy, J.J., Nodder, S.D., Willis, A., Spatio-temporal flow processes of a coseismic turbidite: the Kaikōura Turbidite: Geoscience Society of New Zealand Annual Conference 2020.
- Malone, J.R.**, Horton, B.K., and Craddock, J.P., 2020, Provenance and Stratigraphic Correlation of the Oligocene White River Group in the Bighorn Mountains, Wyoming and Black Hills, South Dakota, USA: Geological Society of America Abstracts with Programs. Vol 52, No. 6, 2020, doi: 10.1130/abs/2020AM-358633.
- Malone, J.R.**, Malone, D.H., Kowallis, B., Strasser, J., 2019, Detrital Zircon Geochronology of quartzite gastroliths in the Jurassic Morrison Formation, Northeast Utah: Geological Society of America Abstracts with Programs. Vol. 51, No. 5, doi: 10.1130/abs/2019AM-337559.
- Malone, J.R.**, Malone, D.H., Craddock, J.P., and Brown, L., 2018, Detrital Zircon Geochronology of quartzite gastroliths in the Jurassic Morrison Formation, Wyoming, USA: Geological Society of America Abstracts with Programs. Vol. 50, No. 6, doi: 10.1130/abs/2018AM-321702.