

# Joshua R. Malone

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Updated: January 2024

## EDUCATION

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**University of Texas at Austin, Austin, TX**, August 2022 - present

Ph.D. Geological Sciences, Jackson School of Geosciences

Advisor(s): Dr. Xavier Janson and Dr. Timothy Lawton

GPA: 4.0

**University of Texas at Austin, Austin, TX**, August 2020 – August 2022

M.S. Geological Sciences, Jackson School of Geosciences

Advisor: Dr. Brian Horton

GPA: 3.9

**Augustana College, Rock Island, IL**, 2020

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

GPA: 3.7

**University of Auckland**, Spring Semester, New Zealand, 2019

Advisor: Dr. Lorna Strachan

## RELATED COURSEWORK & RESEARCH INTERESTS

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**Interests:** Sedimentology, stratigraphy, carbonate/clastic depositional systems, structural geology

**Coursework:** Sedimentary Basin Analysis, Carbonate/Evaporite Depositional Systems, Foreland Basins, Geostatistics, Clastic Depositional Systems Marine Tectonics, Seismic Structural Analysis, Dynamic Field Stratigraphy, Soil Science, Cartography, Natural Resource Management, G.I.S./Remote Sensing, Python.

## HONORS & AWARDS

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2023 SGD/SEPM Student Poster Winner, 2023 GSA Annual Meeting

2022 University of Texas Endowed Presidential Scholarship

2020 Geology Graduate with Distinction, Augustana College

Joseph M. Hoare Prestigious Merit Scholarship in Geology

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

Lucken Scholarship, Augustana Geology Department merit scholarship

2019 Top Field Camp Student, Illinois State University

2018 SGD/SEPM Student Poster Winner, 2018 GSA Annual Meeting

2016 Eagle Scout, Boy Scouts of America

## GRANTS

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2023 AAPG Foundation Grants-in-Aid award (\$3,000)

Lloyd Scholarship, West Texas Geological Survey (\$5,000)

2022 JSG Matching Grant (\$1,000)

GSA Student Research Grant (\$2,500; 1/10 selected for outstanding grant application)

University of Texas Endowed Presidential Scholarship (\$3,000)

## PROFESSIONAL EXPERIENCE

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2020-Present **Research Assistant, Jackson School of Geosciences at the University of Texas at Austin**

- PhD dissertation (ongoing): Pennsylvanian and early Permian outcrops of the Keeler/Darwin Basin, east-central California: Analogs for deepwater Permian Basin stratigraphy
- M.S. thesis: Provenance of Paleozoic strata in the Falkland/Malvinas Islands: Implications for paleogeography and Gondwanan reconstructions

2023 **Geology Intern, Hilcorp Energy, Houston, TX**

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

- Digitized and compiled geochronology data from USGS and state geological surveys, journal publications and geologic maps.

## 2019 Research Intern, University of Auckland, Auckland, New Zealand

- Assisted researchers at the University of Auckland and NIWA (National Institute of Weather and Atmospheric Research) to develop a facies model for turbidites generated from the 2016 Kaikoura earthquake

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

- Assisted senior staff with data entry, subsurface investigations, laboratory testing, geotechnical sample handling, risk assessment, field inspections and design for various engineering or geological projects.
- Prepared simple CAD drawings, boring logs, spreadsheets and portions of technical reports.
- Performed risk assessment GIS map preparation, technical analysis and planning of mission activities.
- Applied academic knowledge of mathematics, chemistry, surveying, and geology to practical situations/problems.

## VOLUNTEER AND SERVICE

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- 2022 **Educational Coach In-Training**, GeoFORCE Jackson School of Geosciences
- 2021 **Panelist**, Jackson School of Geosciences, Diversity in Geoscience Graduate Education (EDGE)  
**Panelist**, Virtual Career Pathways Dialogue Event, Jackson School of Geosciences
- 2020 **Session Chair**, Geological Society of America Annual Meeting, Recent Advances in Stratigraphy
- 2018-2020 **Vice President/Member**, Delta Omega Nu Fraternity  
**Counselor/Volunteer Coordinator**, Camp Kesem
- 2016-2020 **President/Member**, Udden Geology Club, president (2019-2020)

## TEACHING EXPERIENCE

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- 2023 **Assistant Instructor**, GEO 660, Field Geology (3 weeks), University of Texas at Austin, Jackson School of Geosciences
- 2022 **Teaching Assistant**, GEO 660, Field Geology (3 weeks), University of Texas at Austin, Jackson School of Geosciences
- 2020-2022 **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, Augustana College, Geology Department  
**Teaching Assistant**, GEOL 101, Introduction to Geology, Augustana College, Geology Department

## FIELD EXPERIENCE

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- 2023 California, Nevada (Death Valley), dissertation research (4 weeks)  
New Mexico, Utah (Sacramento Mountains, Book Cliffs), assistant instructor (3 weeks)
- 2022 New Mexico, Utah (Sacramento Mountains, Book Cliffs), teaching assistant (3 weeks)  
Central Texas, teaching assistant (four one-day field trips)
- 2022 Argentina (San Rafael Basin, Neuquén Basin, Tepuel Basin), research (2 months)
- 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

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- 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.

## INVITED TALKS

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- 2023 Augustana College, Rock Island, IL  
2022 Austin Paleontological Society, Austin, TX  
2021 United States Geological Survey, Denver, Colorado  
Neville Public Museum, Green Bay, Wisconsin  
SoftRock Seminar, University of Texas at Austin

## PUBLICATIONS

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- Malone, J.R.**, Malone, J.E., Isbell, J.L., Malone, D.H., Unmixing Sediment Sources of the Carboniferous Ansilta Formation of the Calingasta-Uspallata Basin, western Argentina. (*in review for Geoscience Frontiers*)  
**Malone, J.R.**, Dalziel, I.W.D., Stone, P., and Horton, B.K., 2023, Provenance analysis of Paleozoic strata in the Falkland/Malvinas Islands: Implications for paleogeography and Gondwanan reconstructions: *Gondwana Research*, v. 121, p. 33–55, doi:[10.1016/j.gr.2023.04.004](https://doi.org/10.1016/j.gr.2023.04.004).  
**Malone, J.R.**, Craddock, J.P., and Malone, D.H., 2022, Sediment provenance and stratigraphic correlations of the Paleogene White River Group in the Bighorn Mountains, Wyoming: *Mountain Geologist*, v. 59, p. 273–293, doi:[10.31582/rmag.mg.59.4.273](https://doi.org/10.31582/rmag.mg.59.4.273).  
**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*, v. 33, p. 375–382, doi:[10.1111/ter.12522](https://doi.org/10.1111/ter.12522).

## ABSTRACTS

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- Malone, J.R.**, Malone, J.E., Isbell, J.L., Malone, D.H., 2023, Unmixing Sediment Sources of the Carboniferous Ansilta Formation of the Calingasta-Uspallata Basin, western Argentina. Geological Society of America Abstracts with Programs. Vol. 55, No. 6, 2023, doi: 10.1130/abs/2023AM-395883  
Malone, D.H., Freiburg, J., McLaughlin, P., Trela, J., Stevens Goddard, A., **Malone, J.R.**, Malone, J.E., 2023, The Illinois Aulacogen and the rifting of the Argentine Precordillera. Geological Society of America Abstracts with Programs. Vol. 55, No. 6, 2023, doi: 10.1130/abs/2023AM-394086  
Moll, J., Maher, H., Craddock, J.P., Malone, D.H., **Malone, J.R.**, Hacker, D., 2023, Provenance of Paleogene strata at Slim Buttes, South Dakota, USA. Geological Society of America Abstracts with Programs. Vol. 55, No. 6, 2023, doi: 10.1130/abs/2023AM-393475  
Helgerson, R., Malone, D.H., **Malone, J.R.**, Craddock, J.P., Trzinski, A., Hacker, D., 2023, Provenance analysis of the Paleogene Mountain Meadows Formation, Black Hills, South Dakota. Geological Society of America Abstracts with Programs. Vol. 55, No. 6, 2023, doi: 10.1130/abs/2023AM-393642  
Malone, J.E., Malone, D.H., Craddock, J.P., **Malone, J.R.**, 2023, Continental-Scale glaciation during the Paleoproterozoic: detrital zircon evidence from the Snowy Pass Supergroup, Wyoming. Geological Society of America Abstracts with Programs. Vol. 55, No. 6, 2023, doi: 10.1130/abs/2023AM-395795  
**Malone, J.R.**, Price, B.J., Janson, X., 2023, Sedimentologic and Stratigraphic Framework of the Pennsylvanian Bird Spring Shelf, east-central California. SEPM Short Course No. 57: Advances in the Understanding and Interpretations of Carbonates. Houston, TX.  
**Malone, J.R.**, Horton, B.K., Dalziel, I.W., Stone, P., 2022, Detrital Zircon Provenance of Paleozoic strata in the Falkland/Malvinas Islands: Implications for Paleogeography and Gondwanan Reconstructions. Geological Society of America Abstracts with Programs. Vol. 54, No. 5, doi: 10.1130/abs/2022AM-382016  
Morgan, L., Dombrowski, A., Hillenbrand, I., **Malone, J.R.**, Warrell, K., Gilmer, A.K., 2022, USGS GEOCHRON: A New Database of USGS Geochronologic Data: Geological Society of America Abstracts with Programs. Vol. 54, No. 5, doi: 10.1130/abs/2022AM-379345  
**Malone, J.R.**, Horton, B.K., Dalziel, I.W., Padilla, R., 2022, Provenance analysis of Paleozoic basin fill in the Falkland-Malvinas Islands: Implications for basin evolution and Gondwanan reconstructions: JSG Research Symposium Abstract, Austin, TX.  
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.