

Joshua R. Malone

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EDUCATION

University of Texas at Austin, Austin, TX expected May 2025
Ph.D. Geological Sciences, Jackson School of Geosciences
Advisor: Dr. Brian Horton

Augustana College, Rock Island, IL May 2020
Bachelor of Arts, Double Major in Geology and Geography
Cumulative GPA - 3.702
Semester Abroad at the University of Auckland, New Zealand Spring 2019

RESEARCH INTERESTS

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

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)
SGD/SEPM Student Poster Winner (2018 GSA Annual Meeting)
Lucken Geology Scholarship, Augustana Geology Department merit scholarship, (2017-Present)
Eagle Scout, Boy Scouts of America (2016)

RESEARCH EXPERIENCE

Augustana College Senior Inquiry March 2018 – May 2020
Title: *Detrital Zircon Provenance of Quartzite Gastroliths in the Jurassic Morrison Formation, Wyoming, USA*

- ☎ Determined a migration route of sauropods during the Jurassic Period.
- ☎ Presented results at the Geological Society of America Annual Meeting in Phoenix, Arizona (Sept. 2019) and at the Geological Society of America Annual Meeting in Indianapolis, Indiana (Nov. 2018).

Research Assistant for Dr. Lorna Strachan March 2019 – May 2019
School of Environment, University of Auckland, New Zealand
Title: *Sedimentary architecture of co-seismic turbidites distributed along the Hikurangi margin from Kaikoura 2016 EQ*

- ☎ Assisted in processing of deep marine sedimentological data from the Hikurangi margin, eastern New Zealand.
- ☎ Compiled grain size, CT, and Geotech data from a series of cores collected off the Hikurangi margin.
- ☎ Developed initial flow process interpretations and assisted in data processing IODP core material.

PROFESSIONAL EXPERIENCE

Geology Trainee, Geotechnical Branch May 2018 – July 2020
United States Army Corps of Engineers (USACE) – Rock Island District, Rock Island, IL

- ☎ Assist senior staff with data entry, subsurface investigations, laboratory testing, geotechnical sample handling, risk assessment, field inspections and design for various engineering or geological projects.
- ☎ Prepare simple CAD drawings, boring logs, spreadsheets and portions of technical reports.
- ☎ Perform risk assessment GIS map preparation, technical analysis and planning of mission activities.

Udden Geology Club, President August 2019 – May 2020
Augustana Geology Club, Augustana College

Teaching Assistant, GEOL 101, Introduction to Geology Winter Term 2019
Augustana College Department of Geology

- ☎ Tutored/led study sessions for students before exams.
- ☎ Assisted professor during labs, answered student's questions, graded weekly lab worksheets.

FIELD EXPERIENCE

Teaching Assistant, GEOL 105 – Physical Geology in the Rocky Mountains

August 2019

Augustana College Department of Geology, South Dakota, Nebraska, Wyoming

- ⦿ Assisted faculty by teaching geologic principles and field techniques to first year students. This is a field-based course taught in Wyoming and South Dakota.

Geology Field Camp

May 2019 – June 2019

Illinois State University Field Geology Course, Wyoming and South Dakota

- ⦿ Intensive six-week traditional field camp in Wyoming and South Dakota.
- ⦿ Observed and described rocks, measured stratigraphic sections, gathered structural data and prepared field notes.
- ⦿ Constructed geologic maps and cross sections and formulated explanations of the geological history of an area.

Death Valley Geology, GEOL 370

February 2019

Augustana College Department of Geology, California

- ⦿ Presented research project in the field on the Precambrian geology of Death Valley.
- ⦿ Identified geomorphological and tectonic features, identified rock types and strata, hypothesized depositional environments.

PROFICIENCIES AND SHORT COURSES

- ⦿ Detrital Zircon Geochronology Short Course through the University of Arizona (2019 GSA).
- ⦿ Proficiency with computer programs (ArcGIS, Adobe Photoshop/Illustrator, CAD, RockWorks, Clino).
- ⦿ Introductory language experience in Swedish and Spanish.
- ⦿ Photography

VOLUNTEER AND SERVICE EXPERIENCE

President/Member: Udden Geology Club, president (2019-2020)

August 2016 – May 2020

Member: Geography Club

August 2016 - May 2020

Counselor/Volunteer Coordinator: Camp Kesem

April 2018 – May 2020

- ⦿ Served as a camp counselor (2018, 2019), organized monthly meetings and trainings for counselors, recruited new counselors, and fundraised year-round.

Vice President/Member: Delta Omega Nu Fraternity

May 2018 – May 2020

ABSTRACTS

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 PROVENANCE 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

PUBLICATIONS

Malone, J.R., Strasser, J., Malone, D.H., D'Emic, M., Brown, L., Craddock, Jurassic Dinosaurs on the Move: Gastrolith Provenance and Long-Distance Migration. *Terra Nova*, (under review)