

ASHLEY M. MORRIS

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EDUCATION

University of Utah – Salt Lake City, UT PhD Student in Geology <u>Advisor:</u> Dr. Sarah Lambart	Fall 2023 – Present
University of Utah – Salt Lake City, UT Geology M.S. <u>Advisor:</u> Dr. Sarah Lambart	Fall 2021 – Summer 2023 GPA 3.96/4.00
University of Iowa – Iowa City, IA Geoscience B.S., graduated with Honors in the Major Environmental Sciences Minor, Geosciences Track	Fall 2017 – Summer 2021 GPA 3.78/4.00

AWARDS & GRANTS

Western Association of Graduate Schools(WAGS)/ProQuest Distinguished Master's Thesis Award Awarded \$250 and nomination as the University of Utah representative in the STEM category for the national WAGS competition based on graduate thesis work.	Fall 2023
Outstanding MS Student Award Annual University of Utah, Department of Geology and Geophysics Award. The recipient is chosen by faculty and fellow students for research efforts and departmental contributions.	Spring 2023
Outstanding Teaching Assistant of the Year 2022-2023 Annual University of Utah, Department of Geology and Geophysics Award. Awarded based on student evaluations for the courses of the past year.	Spring 2023
AWG Student Research Scholarship - \$500 scholarship Awarded to cover the expenses of research endeavors for young female geoscientists in Utah by the Salt Lake Chapter of the Association for Women Geoscientists.	April 2023
AWG Outstanding Graduate Student - \$750 award Advisor nomination-based award provided and decided by the Salt Lake Chapter of the Association for Women Geoscientists.	April 2023
Graduate Student Travel Assistance Award - \$400 grant, matched by the advisor. Awarded by the University of Utah, Geology & Geophysics department to graduate students to fund travel to other research institutions and facilities.	January 2022
Stokes-Eardley Fellowship - \$51,441 total funding. Provided in addition to Teaching/Research Assistantships and Tuition Benefit Program to support graduate students in the University of Utah, Geology & Geophysics department.	Spring 2021
Cedar Valley Rock & Mineral Society Scholarship - \$1000 scholarship Provided to University of Iowa, Earth & Environmental Science students enrolled in Geologic Field Analysis for outstanding performance in Geologic Field Methods.	Spring 2021
Lowden Prize in Geoscience - \$200 scholarship Annual University of Iowa, Earth & Environmental Science Department Award. Awarded for excellence in the geosciences decided on by the faculty members in the department.	Spring 2021
Bill Vosper Award - \$150 scholarship Annual University of Iowa, Earth & Environmental Science Department Award. The recipient is chosen by faculty and students for major contributions to the department in the areas of field trips, fieldwork, research, and undergraduate affairs.	Spring 2020
Hawkeye Achievement Award - \$8000 scholarship Awarded upon acceptance to the University of Iowa, based on prior achievements and high school grade point average.	Fall 2017

RESEARCH EXPERIENCE

- Outlining magma mixing and emplacement history of unique sample from International Ocean Discovery Program (IODP) Expedition 396, using geochemical and petrographic analyses.

- Technical analysis on three data collection techniques (pXRF, XRF-cs, ICP-AES) for bulk rock composition data for International Ocean Discovery Program (IODP) Expedition 396 basaltic lava flows.
- Using clinopyroxene and volcanic glass compositions to calculate geothermobarometric conditions of equilibrium or storage depth of western Icelandic lava flows.
- Zircon mineral separation processing for U-Pb geochronology techniques.
- Concentrating natural water samples in a clean laboratory to measure rare earth element (REE) concentrations.
- Creating meteorite pXRF database for identifying meteorites based on chemical composition.

KEY SKILLS

- Portable x-ray fluorescence (pXRF) and x-ray fluorescence core scanner (XRF-cs) analysis.
- Electron microprobe analyses.
- Laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) trace element and isotopic analyses.
- Petrographic descriptions.
- Heavy equipment operation, including jaw crusher, disc mill, shaker table, free fall and Barrier Frantz magnets.
- Thermobarometric and thermodynamic (MAGEMin, alphaMELTS) calculations.

PUBLICATIONS & PRESENTATIONS

- Morris A.M.**, Lambart S., Chatterjee S., Guo P., Tegner C., Mohn G.T.F., Xu W., Planke S., Berndt C., Alvarez Zarikian C., Betlem P., Brinkhuis H., Christopoulou M.E., Filina I.Y., Frieling J., Harper D.T., Jones M.T., Longman J., Millett J.M., Scherer R.P., Varela N., Yager S.L. and the IODP Expedition 396 Party (**in prep**) Review of XRF, pXRF, ICP-MS data collection for IODP drill cores.
- Morris A.M.**, Lambart S., Chatterjee S., Guo P., Tegner C., Planke S., Berndt C., Alvarez Zarikian C., Betlem P., Brinkhuis H., Christopoulou M.E., Filina I.Y., Frieling J., Harper D.T., Jones M.T., Longman J., Millett J.M., Mohn G.T.F., Scherer R.P., Varela N., Xu W., Yager S.L. and the IODP Expedition 396 Party (**in prep**) The role of continental crust during rifting: Insights from an early Eocene dacitic unit collected within the Vøring Transform Margin.
- Morris A.M.**, Lambart S., Stearns, M., Bowman, J., Guo P., Jones M.T., Mohn G.T.F., Andrews G., Planke S., Berndt C., Alvarez Zarikian C., Betlem P., Brinkhuis H., Chatterjee S., Christopoulou M.E., Filina I.Y., Frieling J., Harper D.T., Longman J., Millett J.M., Scherer R.P., Varela N., Xu W., Yager S.L., Agarwal A., Battacharya, J., Ferré, E., Nakaoka, R., Tegner, C., and Wang, M. Evidence for low-pressure crustal anatexis during the Northeast Atlantic break-up Abstract Submission **2023**, American Geophysical Union, San Francisco, California.
- Morris A.M.**, Lambart S. (**2023**) Crust-mantle interactions during continental break-up: insights from an early Eocene dacitic unit within the Vøring Transform Margin (International Ocean Discovery Program Expedition 396). University of Utah, Geology Master's Thesis.
- Morris A.M.**, Lambart S., Guo P., Jones M.T., Mohn G.T.F., Andrews G., Planke S., Berndt C., Alvarez Zarikian C., Betlem P., Brinkhuis H., Chatterjee S., Christopoulou M.E., Filina I.Y., Frieling J., Harper D.T., Longman J., Millett J.M., Scherer R.P., Varela N., Xu W., Yager S.L., Agarwal A., Battacharya, J., Ferré, E., Nakaoka, R., Tegner, C., and Wang, M. Crust-mantle interactions during continental breakup: Insights from an early Eocene dacitic unit within the Vøring Transform Margin (IODP Expedition 396) Poster **2023**, Goldschmidt, Lyon, France.
- Morris A.M.**, Peate, D.W. (**2021**). Clinopyroxene geothermobarometry constraints on magma storage depths for off-rift volcanism of the Snaefellsnes Peninsula, West Iceland. University of Iowa, Geosciences Honors Thesis.
- Morris A.M.**, Peate, D.W. (**2018**). Meteorites vs. Meteor-Wrongs Poster Presentation. University of Iowa Undergraduate Research Fair, Iowa City, IA.

PROFESSIONAL DEVELOPMENT

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| University of Utah RED Research Mentoring Certification | Fall 2023 |
| A 6-week training course designed to learn how to mentor student research. | |
| Goldschmidt Writing Scientific Papers Workshop | Summer 2023 |
| Early career pre-conference workshop offering format suggestions and common writing mistakes. | |
| Python Computing Language Courses | Fall 2020 & Fall 2022 |
| Introductory level course for learning the Python computing language and graduate level course applying Python to geologic computational methodologies. | |
| Iowa Geological Survey Internship | Spring 2020 – Spring 2021 |
| <u>Employers/Advisors:</u> Stephanie Tassier-Surine, Phillip Kerr, Dr. Emily Finzel | |

Modification of hard-rock zircon mineral separation process for use on glacial till. Summer 2020 – Spring 2021
Digitization of Film Slides and Rock Sample Collection
Employer: Dr. Jane Gilloti
University of Iowa Geologic Field Camps Spring 2019 & Spring 2021
Two three-week field courses (Geologic Field Methods and Field Analysis) in Dillon, MT and Sun Canyon, MT.
Geologic Field Trips Spring 2018 – Spring 2021
Six trips led by Dr. Kate Tierney at the University of Iowa throughout my undergraduate college career, varying from three days to one week, focused on identifying and observing a range of geologic settings and features. Destinations included Eastern Kentucky, Southern Missouri, Badlands NP, Bahamas, Guadalupe Mountains NP, Carlsbad Caverns NP, and Big Bend NP.
Foundations of GIS Course Spring 2020
An undergraduate-level course focused on the ability to use and interpret geographic information systems.

SERVICE & OUTREACH

Teaching Assistantship – University of Utah Fall 2022
Conducted laboratory sessions for undergraduate mineralogy course in Geology & Geophysics department.
Inclusive Earth Student Club – University of Utah Fall 2021 – Present
Events and outreach by students dedicated to creating a welcoming community within the Geology & Geophysics department.
Undergraduate Representative – University of Iowa Fall 2020 – Spring 2021
Promoted by undergraduate research advisor to provide undergraduate input and raise concerns of fellow students at Earth & Environmental Sciences faculty meetings.
Environmental Science Club Fall 2019 – Spring 2021
A club including members of various backgrounds interested in talking about current environmental issues and leading community projects to increase awareness and improve the environment.