

CURRICULUM VITAE: Claire L. McLeod (she/her)

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• Professional Appointments

Miami University

Graduate Program Director Aug. 2023 – present
Associate Professor July 2021 – present
Assistant Professor Aug. 2015 – July 2021

• Professional Preparation

The University of Houston	April 2012 – July 2015	Postdoctoral Research Fellow
Durham University	Sept. 2008 – March 2012	PhD in Geology
The University of Edinburgh	Aug. 2004 – June 2008	Geology BSc (honors, 1 st class)

▪ PEER REVIEWED JOURNAL ARTICLES AND BOOK CHAPTERS (n=32)

(*undergraduate student, graduate student)

- 2024 Jenkins, N. J., Zhou, X., Bhowmick, M., **McLeod, C. L.**, Krekeler, M. P. S. Investigation into the Stability of Synthetic Goethite after Dynamic Shock Compression. *Physics and Chemistry of Minerals*. *In press*.
- 2024 *Allen, A., Dietrich, M., **McLeod, C. L.**, Gillis, M., Gokey, K., Fouh Mbindi, M., Krekeler, M. P. S. Investigating Mercury in Road Sediment in Michigan City, Indiana: A New Type of Environmental Pollution Record. *Environmental Advances*, v. 15; 100483.
- 2024 *Wudke, H., Brown, K., *Murchland, M., Gillis, M., Gokey, K., Bank, J., Lytle, M., **McLeod, C. L.**, Krekeler, M. P. S. Mineralogical and Geochemical Characterization of Johnson's Baby Powder from 1985: Evidence of contamination. *Applied Clay Science*, v. 250; 107252.
- 2024 *Murchland, M., *Elasmar, S., *Viner, G., Zhou, X., Gillis, M., Almquist, C., Cymes, B., Bhowmick, M., **McLeod, C. L.**, Krekeler, M. P. S. The Effect of Shock Compression on the Crystal Structure of Cryptomelane (K-OMS-2). *Journal of Dynamic Behavior of Materials*.
- 2023 *Curtis, J., *Stittle, L., *Certain, J., *Murchland, M., *Piszal, C., Vest, J., **McLeod, C. L.**, Krekeler, M. P. S. A Reflective Spectroscopy and Mineralogical Investigation of Cosmetic Blush (Wet'N'Wild) Potentially for Forensic Investigations Related to Interpersonal Violence – An Experimental Feasibility Study. *Forensic Sciences*, 3(4), 544-559.
- 2023 Krekeler, M. P. S., Burke, M., Allen, S., Sather, B., Chappell, C., **McLeod, C. L.**, Loertscher, C., Loertscher, S., *Dawson, C., Brum, J., Fackey, D. A novel hyperspectral remote sensing tool for detecting and analyzing human materials in the environment. *Environmental Earth Sciences*, 82:109.
- 2022 **McLeod, C. L.**, Benson, S. Mentoring for success: Best Practices to Support our Students and Colleagues. *Journal on Excellence in College Teaching*, v. 33(4).
- 2022 Johnston, S., Brandon, A., **McLeod, C. L.**, Rankenburg, K., Becker, H., Copeland, P. Nd isotope variation between the Earth-Moon system and enstatite chondrites. *Nature*, v. 611; 501-506.
- 2022 **McLeod, C. L.**, Gawronska, A. J. Mantle. In: *Encyclopedia of Lunar Science*, ed: Cudnik, B. Springer, 1000pp.
- 2022 Gawronska, A. J., **McLeod, C. L.**, Blumenfeld, E. H., Hanna, R. D., Zeigler, R. A. New Interpretations of lunar mare basalt flow emplacement from XCT analysis of Apollo samples. *Icarus*, v. 388; 115216.
- 2022 Arora, B., Currin, A., Dwivedi, D., Fru, M., Kumar, N., **McLeod, C. L.**, Roman, D. Volcanology, Geochemistry, and Petrology Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science Commentary. In: The Power of Many: Opportunities and Challenges of Integrated, Coordinated, Open, Networked (ICON) Science to Advance Geosciences. *Earth and Space Science*, v. 9, e2021EA002120.
- 2022 Gawronska, A. J., **McLeod, C. L.** Basalt. In: *Encyclopedia of Lunar Science*, ed: Cudnik, B. Springer, 1000pp.
- 2022 Gawronska, A. J., **McLeod, C. L.** Moon, Overall Geology. In: *Encyclopedia of Lunar Science*, ed: Cudnik, B. Springer, 1000pp.
- 2021 Flett, L., **McLeod, C. L.**, McCarty, J. L., Shaulis, B. J., Fain, J. J., Krekeler, M. P. S. Monitoring Uranium Mine pollution on Native American lands: Insights from Tree Bark Particulate Matter on the Spokane Reservation, WA. *Environmental Research*, v. 194, 110619.
- 2020 **McLeod, C. L.**, and Brown, K. L. Strategies for Preparing and Delivering an Effective Online Presentation. *GSA Today*, v. 30(9).

- 2020 Velázquez Santana, L. C., **McLeod C. L.**, Blakemore, D., Shaulis, B., Hill, T. Bolivian Hornblendite Cumulates: Insights into the Depths of Central Andean Arc Magmatic Systems. *Lithos*, 370-371; 105618.
- 2020 *Lindeman, C., *Oglesbee, T., **McLeod, C. L.**, Krekeler, M. P. S. Mineralogy and Geochemistry of the Kinnikinic Quartzite at the Arco Hills Silica and Gold Project in Butte County, Idaho: Results of an Ore Quality Spot Check and Implications for Potential Plasma Furnace Processing. *Minerals*, 10(6); 523.
- 2020 *Oglesbee, T., **McLeod, C. L.**, Chappell, C., *Vest, J., Sturmer, D., Krekeler, M. P. S. A Mineralogical and Geochemical Investigation of Modern Aeolian Sands near Tonopah, Nevada: Sources and Environmental Implications. *Catena*, v. 194; 104640.
- 2020 *Barnes, M., **McLeod, C. L.**, *Faraci, O., Chappell, C., Krekeler, M. P. S. Characterizing the geogenic background of the Midwest: A detailed mineralogical and geochemical investigation of a glacial till in southwestern Ohio. *Environmental Earth Sciences*, v. 79; 159.
- 2019 Crawford, I., Anand, M., Barber, S., Cowley, A., Crites, S., Fa, W., Flahaut, J., Gaddis, L. R., Greenhagen, B., Haruyama, J., Hurley, D., **McLeod, C. L.**, Morse, A., Neal, C. R., Sargeant, H., Sefton-Nash, R., and Tartèse, R. Lunar Resources In: *Reviews in Mineralogy and Geochemistry (RMG): New Views on the Moon II (accepted 2019, in print 2023)*.
- 2018 **McLeod, C. L.**, and Shaulis, B. J. Rare Earth Elements in Planetary Crusts: Insights from Chemically Evolved Igneous suites on Earth and the Moon. *Minerals*, v. 8.
- 2017 **McLeod, C. L.**, and Krekeler, M. P. S. Sources of Extraterrestrial Rare Earth Elements: To the Moon and Beyond. *Resources* v. 6; 1-28.
- 2016 **McLeod, C. L.** Lunar Magma Ocean, Size. In: *Encyclopedia of Lunar Science*, ed: Cudnik, B. Springer, 1000pp. In print edition available 2021.
- 2016 **McLeod, C. L.**, Brandon, A. D., Fernandes, V. A., Peslier, A. H., Fritz, J., Lapen, T., Shafer, J. T., Butcher, A. R., and Irving, A. J. Constraints on formation and evolution of the lunar crust from feldspathic granulitic breccias NWA 3163 and 4881. *Geochimica et Cosmochimica Acta* v. 187; 350-374.
- 2015 McGee, L. M., **McLeod, C. L.**, and Davidson, J. P. A spectrum of disequilibrium melting preserved in lava-hosted, partially melted crustal xenoliths from the Wudalianchi volcanic field, NE China. *Chemical Geology* v. 147; 184-199.
- 2014 **McLeod, C. L.**, Brandon, A. D., Armytage, R. M. G. Constraints on the formation age and evolution of the Moon from ¹⁴²Nd-¹⁴³Nd systematics of Apollo 12 basalts. *Earth and Planetary Science Letters*, v. 127; 179-189.
- 2014 Wanhainen, C., Nigatu, W., Selby, D., **McLeod, C. L.**, Nordin, R., Bolin N-J. The Distribution, Character and Rhenium Content of Molybdenite in the Atik Cu-Au-Ag-(Mo) Deposit and Its Southern Extension in the Northern Norrbotten Ore District, Northern Sweden. *Minerals*, 4; 788-814.
- 2013 **McLeod, C. L.**, Davidson, J. P., Nowell, G. M., de Silva, S. L., Schmitt, A. K. Characterizing the continental basement of the Central Andes: constraints from Bolivian crustal xenoliths. *Geological Society of America Bulletin*, v.125; 985-997.
- 2013 Allen, M. B., Kheirkhah, M., Neill, I., Emami, M. H., **McLeod, C. L.** Generation of Arc and Within-plate Chemical Signatures in a Collision Zone: Quaternary lavas from Kurdistan Province, Iran. *Journal of Petrology*, v. 54; 887-911.
- 2013 Jolis, E. M., Freda, C., Troll, V. R., Deegan, F. M., Blythe, L. S., **McLeod, C. L.**, Davidson, J. P. Experimental simulation of magma-carbonate interaction beneath Mt. Vesuvius, Italy. *Contributions to Mineralogy and Petrology*, v.166; 1335-1353.
- 2012 **McLeod, C. L.**, Davidson, J. P., Nowell, G. M., de Silva, S. L. Disequilibrium melting during crustal anatexis and implications for modeling open magmatic systems. *Geology*, v. 40; 435-438.
- 2010 Deegan, F. M., Troll, V. R., Freda, C., Misti, V., Chadwick, J. P., **McLeod, C. L.**, and Davidson, J. P. Magma-Carbonate Interaction Processes and Associated CO₂ Release at Merapi Volcano, Indonesia: Insights from Experimental Petrology. *Journal of Petrology*, v. 51; 1027-1051.

▪ **EXTERNAL FUNDING** (total to date: \$1,735,706, \$202,277 pending)

- Defense University Research Instrumentation Program (DURIP)

pending

Title: Material Analysis via Scanning Electron Microscopy for Defense Science Applications

Role: Co-PI; 01/01/25-12/31/25

- National Science Foundation (NSF) ADVANCE Catalyst Award #2126030 \$299,947
Title: Equity in STEM at Miami University
Role: Co-PI; 05/15/22-04/30/24
- National Science Foundation (NSF) MRI Award #1919658 \$711,822
Title: Acquisition of a Multi-Collector ICP-MS with Laser Ablation for Geochemical and Geochronological Applications
Role: Co-PI; 08/01/19-07/30/22
- National Science Foundation (NSF) IUSE GEOPATHs Award #1801424 \$333,317
Title: Advancing Undergraduate Geoscience through Integrated Training Experiences
Role: PI; 08/01/18-07/30/23
- National Aeronautics and Space Administration (NASA) Emerging Worlds \$390,620
Title: The Search for Nebular Heterogeneity and the Compositions of Terrestrial Planetary Materials Using Nd, Sm and Os Isotopes
Role: Co-PI; 08/01/16-07/30/19 (\$72,227 sub-contract to Miami University)

• **Sample request proposals**

National Park Service (NPS)	
Project Title: Investigating the Composition of Earth's Lithosphere: Insights from the Xenoliths of the Absaroka Volcanic Units in East Yellowstone National Park. Role: Principal Investigator	
<i>Source of Support:</i> NPS	
<i>22 samples collected from Yellowstone National Park in June 2022</i>	<i>Award Period:</i> Permit granted until end of 2022
<i>Location of Project:</i> Miami University	
<i>Current use:</i> initial data collection in preparation for NSF proposal to Petrology and Geochemistry	

Meteorite Working Group (MWG)*	
Project Title (1): The evolution of lunar igneous lithologies as revealed through their 2-D and 3-D chemical, physical, and chronological characteristics. Role: Principal Investigator	
<i>Source of Support:</i> NASA	
<i>Award Amount:</i> 5 thin sections and accompanying rock chips of meteorites DOM 18262, 18509, 18543, 18666, 18678.	<i>Award Period:</i> 10/01/19 – 09/30/24
<i>Location of Project:</i> Miami University, University of Arkansas	
<i>Current use:</i> MS student thesis Alex Schweitzer (Fall 2021-present), ongoing research	
Project Title (2): U-Pb Crystallization age and impact history of ALHA 81005 and its clasts. Role: Co-Principal Investigator	
<i>Source of Support:</i> NASA	
<i>Total Award Amount:</i> 3 thin sections of lunar meteorite ALH A81005	<i>Award Period:</i> 08/01/18 – when research objectives are achieved
<i>Location of Project:</i> University of Arkansas, Miami University	
<i>Current use:</i> MS student thesis - Jared Brum (Fall 2020-Spring 2022), ongoing research	

*MWG sample request proposal deadlines occur twice a year (March and August, panel meets twice a year ~1 month following these proposal deadlines). Proposals are reviewed by a panel consisting of NASA sample curation scientists and scientists from throughout the lunar and planetary community. Proposals are similar in style to standard grant applications although shorter (4-6 pages): scientific objective must be clear and relevant to NASA Science Mission Directorate, proposed analytical methods must be justified and accompanied by letters of support from all collaborating institutions

Curation and Analysis Planning Team for Extraterrestrial Materials (CAPTEM)†	
Project Title: 2D and 3D Petrochemical and Petrophysical Investigations of Magmatic Differentiation on the Moon. Role: Principal Investigator	
<i>Source of Support:</i> NASA	
<i>Total Award Amount:</i> 8 thin sections and accompanying rock chips of Apollo 11 basalts	<i>Award Period:</i> 12/07/17 – when research objectives are achieved
<i>Location of Project:</i> Miami University, University of Arkansas, University of Texas Austin	
<i>Current use:</i> One PhD student dissertation – Aleksandra Gawronska (started Fall 2018)	

†CAPTEM sample request proposal deadlines occur twice a year (March and August, panel meets twice a year ~1 month following these proposal deadlines). Proposals are reviewed by a panel consisting of NASA sample curation scientists and external reviewers from throughout the lunar and planetary community. Proposals are similar in style to standard grant applications although shorter (3-6 pages): scientific objective must be clear and relevant to NASA science mission directorate, alignment of samples requested to these objectives must be clear and comprehensive, proposed analytical methods must be justified and accompanied by letters of support from all collaborating institutions.

▪ **INTERNAL FUNDING** (Miami University, total to date: \$110,770) \$10,461 *pending*

2015- present Professional Development Funds from Faculty Learning Communities (\$8400)

New Faculty Teaching Enhancement Program 2015 (\$250); New Faculty Research Community 2016 (\$250); Alumni Teaching Scholars 2016-2017 (\$250); Diffusing STEM 2017 (\$400); Global Initiatives Faculty Collaborative 2017-2018 (\$2500); Experiential Learning 2018-2019 (\$500); Graduate Student Mentorship 2020-2021 (\$500); Diversity, Equity, and Inclusion 2021 (\$500); Evaluating Course Evaluations for Formative and Summative Improvement 2021-2022 (\$1000); Inclusive Teaching for Equitable Learning 2022 (\$250); Let's Play: Improved Instruction through Re-Experiencing Learning using Tabletop Games 2022-2023 (\$500); New Graduate Directors 2023-2024 (\$500); Teaching STEM: Strategies to Support Faculty Development and Enhance Teaching Effectiveness (\$1000).

2024 Miami University Mental Health Incubator - Supporting the mental health and well-being of graduate students through community and belonging (\$2487, *pending*)

2024 M.I.A.M.I WOMEN Giving Circle Into the Wild: Supporting Women's Health in the Great Outdoors (\$7974, *pending*)

2024 Center for Career Exploration & Success Career Grant - Preparing the Future Workforce by Increasing Access to Geoscience Professional Development Opportunities (\$9860)

2024 Center for Career Exploration & Success Career Grant to support an honorarium for 3-day department visit (including a dept. seminar) by The Groovy Geologist, Cate Larsen (\$1000)

2023 Student Technology Fee Award – Size Matters: Acquisition of Laser Particle Size Analyzer to Facilitate Student Professional Development and Career-Relevant Training (Lead: Dr. Jason Rech, \$33,621)

2023 M.I.A.M.I WOMEN Giving Circle – Establishing a Formal Mentoring Program for STEM Faculty and Graduate Students (lead: Dr. Cathy Almquist, \$8400)

2022 Committee on Faculty Research (CFR) – Faculty Research Grant (\$14,071)

2021 Student Technology Fee Award - Promoting Student Accessibility through the Digitization of Educational Resources: Acquisition of a Digital Thin Section Slide Scanner (\$2394)

2019 Center for Teaching Excellence (CTE) Minor Teaching Grant to support Game Based Learning Teaching Assignment in GLG 357 (\$295)

2019 Center for Career Exploration & Success Career Grant supported a 2-day field trip to the Department of Mineral Sciences, Smithsonian National Museum of Natural History (\$3000)

2019 Undergraduate Summer Scholarship awarded to Andrew Bollinger (\$600 for faculty)

2019 Undergraduate Summer Scholarship awarded Jared Brum (\$600 for faculty)

2018 Center for Teaching Excellence (CTE) Minor Teaching Grant to attend Early Career Geoscience Faculty Workshop at the University of Maryland (\$300)

2018 Council on Undergraduate Research: Education Division Award for Research (\$250)

2018 Deans Scholar awarded to undergraduate student Elizabeth O'Brien (\$750 for faculty)

2017 Center for Teaching Excellence (CTE) Minor Teaching Grant to attend Summer Institute on Scientific Teaching at the University of Minnesota (\$177)

2017 Undergraduate Summer Scholarship awarded to Elizabeth O'Brien (\$600 for faculty).

2017 College of Arts and Sciences Equipment Fund: Acquisition of a Hot Plate for Sample Preparation: Supporting Student Research in Geochemistry (\$650, Co-Principal Investigator)

2017 College of Arts and Sciences Equipment Fund: Acquisition of a Field Rock Drill in Support of Teaching and Student Research (\$3150, Principal Investigator)

2016 Committee on Faculty Research Grant for 2017-2018. (\$16,852 MS stipend, \$2500 research costs)

2016 Center for Teaching Excellence (CTE) Major Teaching Grant (\$3000)

2015 Center for Teaching Excellence (CTE) Minor Teaching Grant (\$300)

RESEARCH FUNDING ACQUIRED BY STUDENT MENTEES (*undergraduate student, graduate student)

▪ **External** (\$50,265)

2023 Geological Society of America Graduate Student Research Grant to Azadeh Sedaghat (\$2500)

- 2022 Future Investigators in NASA Earth and Space Science (FINESST) scholarship to Aleksandra Gawronska (\$36,365)
- 2022 American Geophysical Union Lawrence A. Taylor Research Fund to Aleksandra Gawronska (\$4000)
- 2021 Geological Society of America Graduate Student Research Grant to Aleksandra Gawronska (\$2100)
- 2019 ExxonMobil/Geological Society of America Graduate Student Research Grant to Liannie Velázquez-Santana (\$5000)
- 2018 Evolving Earth Foundation grant to Richard Brydon (\$3000)
- 2017 Geological Society of America North Central Undergraduate Research Award to *Elizabeth O'Brien (\$300)

▪ **Internal** (Miami University, \$17,200)

- 2023 Office of Research for Undergraduates (ORU): Undergraduate Student Scholarship (USS) awarded to *Landon Stittle (\$1000 for research costs)
- 2023 Office of Research for Undergraduates (ORU): Undergraduate Student Scholarship (USS) awarded to *Juliana Curtis (\$1000 for research costs)
- 2023 Graduate School Dissertation Research Funding Award to Azadeh Sedaghat (\$600)
- 2021 Graduate School Dissertation Research Funding Award to Aleksandra Gawronska (\$600)
- 2021 Graduate School Thesis Research Funding Award to Jared Brum (\$300)
- 2020 Office of Research for Undergraduates (ORU) Undergraduate Research Award to *Mitchell Duncan (\$400)
- 2020 Office of Research for Undergraduates (ORU) Undergraduate Research Award to *Raghad Algbory (\$450)
- 2020 Office of Research for Undergraduates: Undergraduate Research Award to *Jordan Vest (\$750).
- 2020 M.I.A.M.I WOMEN Giving Circle *Jordan Vest, *Claudia Dawson, *Jessica Patrick, *Lauren Doepke (\$7200)
- 2020 Office of Research for Undergraduates (ORU): Undergraduate Student Scholarship (USS) awarded to *Jessica Patrick. (\$1000 for research costs - program cancelled for summer 2020)
- 2019 Office of Research for Undergraduates (ORU): Undergraduate Student Scholarship (USS) awarded to *Andrew Bollinger (\$1000 for research costs)
- 2019 Office of Research for Undergraduates (ORU): Undergraduate Student Scholarship (USS) awarded to *Jared Brum (\$1000 for research costs)
- 2018 Office of Research for Undergraduates (ORU) Doctoral Undergraduate Opportunity Scholarship (DUOS) awarded to *Jared Brum and Aleksandra Gawronska (\$1000)
- 2017 Office of Research for Undergraduates (ORU): Undergraduate Student Scholarship (USS) awarded to *Elizabeth O'Brien (\$1000 for research costs)

 ▪ **STUDENT MENTEE AWARDS AND ACCOMPLISHMENTS** (*undergraduate student, graduate student)

▪ **External** (\$83,485)

- 2024 Barry M. Goldwater Scholarship to *Audrey Allen (\$7500)
- 2024 *Hannah Wudke elected to Phi Beta Kappa by Miami University's Iota of Ohio chapter
- 2023 Geological Society of America (GSA) Mineralogy, Geochemistry, Petrology, & Volcanology Division, student travel grant awarded to *Juliana Curtis (\$500)
- 2023 L. Austin Weeks Undergraduate Grant, American Association of Petroleum Geologists (AAPG), to *Landon Stittle (\$500)
- 2023 American Institute of Professional Geologists (AIPG) National Scholarship to *Juliana Curtis (\$1500)
- 2023 Geological Society of America North Central Section travel grant to Azadeh Sedaghat (\$125)
- 2023 Astronaut Scholarship to *Hannah Wudke (\$15,000)
- 2023 Barry M. Goldwater Scholarship to *Hannah Wudke (\$7500)
- 2022 Cernan-Schmitt-Evans Travel Award, Lunar and Planetary Institute (LPI), to Aleksandra Gawronska (\$1500)
- 2022 American Institute of Professional Geologists (AIPG) National Scholarship to *Ruthy Rutherford (\$1500)
- 2022 National Association of Geoscience Teachers (NAGT) Outstanding Teaching Assistant Award to Aleksandra Gawronska
- 2022 National Association of Geoscience Teachers (NAGT) Outstanding Teaching Assistant Award to Liannie Velázquez-Santana

- 2021 American Geophysical Union Travel Grant to Liannie Velázquez-Santana (\$1000)
- 2021 Geological Society of America Expanding Representation in Geosciences to *Ruthy Rutherford (\$1500)
- 2021 Norman R. Tilford Field Study Scholarship to *Jessica Patrick (\$1500)
- 2021 American Institute of Professional Geologists (AIPG) National Scholarship to *Jessica Patrick (\$1500)
- 2021 Ohio Environmental Protection Agency (EPA) Scholarship to *Ruthy Rutherford (\$5000)
- 2021 Annual Departmental Graduate Research Award to Aleksandra Gawronska (\$250)
- 2021 Annual Departmental Undergraduate Research Award to Jessica Patrick (\$250)
- 2021 Lunar and Planetary Institute Career Development Award to Aleksandra Gawronska (\$290)
- 2021 Barry M. Goldwater Scholarship to *Ethan Klein (\$7500)
- 2021 NASA Space Grant College Fellowship: Ohio Space Grant Consortium to Jared Brum (\$17,000)
- 2021 Lunar and Planetary Institute Career Development Registration Award to Aleksandra Gawronska (to attend the 52nd Lunar and Planetary Science Conference, virtual, March 15th-19th)
- 2020 National Association of Geoscience Teachers (NAGT) Outstanding Teaching Assistant Award to Daniel Blakemore
- 2020 Ohio Environmental Protection Agency (EPA) Scholarship to *Jessica Patrick (\$5000)
- 2020 Student Academic Career Prep Fund Award awarded to Liannie Velázquez-Santana by NAGT to support registration and virtual attendance at the Preparing for an Academic Career Workshop, Earth Educators' Rendezvous
- 2020 Geological Society of America J. David Lowell Field Camp Scholarship to *Jessica Patrick (\$2000 – for summer 2021)
- 2020 American Institute of Professional Geologists (AIPG) National Scholarship to *Jennifer Davis (\$1000)
- 2019 Aleksandra Gawronska selected for 10-week, internationally competitive Exploration Science Summer Intern Program, at the Center for Lunar Science and Exploration, Lunar Planetary Institute, Houston, TX (1 of 9 interns from >100 applicants)
- 2019 Geological Society of America (GSA) North Central Section travel grant (\$100) to *Andrew Bollinger
- 2019 Geological Society of America (GSA) Mineralogy, Geochemistry, Petrology, & Volcanology Division, student travel grant awarded to Liannie Velázquez-Santana (\$500)
- 2019 Annual Departmental Undergraduate Research Award to *Jared Brum (\$450)
- 2019 Geological Society of America (GSA) Rocky Mountain Student Travel Grant to Liannie Velázquez-Santana (\$100).
- 2019 GeoCUR Award for Excellence in Student Research awarded to *Jared Brum
- 2018 Geological Society of America (GSA) Student Professional Development Pathways Travel Award awarded to Liannie Velázquez-Santana (\$900)
- 2018 Geological Society of America (GSA) On To The Future award to *David Beka Binyam (\$600)
- 2018 Cincinnati Mineral Society Education Fund Scholarships awarded to *Ciara Childers and *David Beka Binyam (\$750 each)
- 2018 Excellence in Student Research Award from Geoscience Division of Council on Undergraduate Research awarded to *Elizabeth Angi-O'Brien
- 2017 Geological Society of America (GSA) On To The Future award to *Elizabeth Angi-O'Brien (\$600)
- 2017 American Geophysical Union (AGU) Virtual Poster Showcase, Maureen Haley (2nd place)
- **Internal** (Miami University, \$12,750)
- 2023 Annual Departmental PhD Research Award to Aleksandra Gawronska (\$250)
- 2023 College of Arts and Science Dean's Scholar to *Juliana Curtis (\$500)
- 2023 College of Arts and Science Dean's Scholar to *Hannah Wudke (\$500)
- 2023 Graduate School Dissertation Fund to Azadeh Sedaghat (\$600)
- 2023 Provost Student Academic Achievement Award to *Juliana Curtis (\$1000)
- 2023 Provost Student Academic Achievement Award to *Landon Stittle (\$1000)
- 2023 Provost Student Academic Achievement Award to *Hannah Wudke (\$1000)
- 2022 Provost Student Academic Achievement Award to *Kinshuk Tella (\$1000)
- 2022 President's Distinguished Service Award to *Ruthy Rutherford
- 2022 Annual Departmental PhD Research Award to Liannie Velázquez-Santana (\$250)
- 2022 Annual Departmental MS Research Award to Jared Brum (\$250)
- 2022 Annual Departmental DEI Award to Liannie Velázquez-Santana
- 2022 Annual Departmental Service Award to *Ruthy Rutherford
- 2021 Provost Student Academic Achievement Award to *Lauren Doepke (\$1000)

2021	Provost Student Academic Achievement Award to *Ethan Klein (\$1000)
2020	Graduate Student Achievement Award to <u>Liannie Velázquez-Santana</u> (\$500)
2020	College of Arts and Science Dean's Scholar to *Jessica Patrick (\$500)
2020	Provost's Student Academic Achievement Award awarded to *Jessica Patrick (\$1000).
2020	Annual Departmental Undergraduate Research Award to *Jared Brum (\$250)
2020	H. Van der Veer Hilker Memorial Scholarship awarded to *Jessica Patrick (\$250)
2019	Graduate School Student Travel Grant to <u>Liannie Velazquez-Santana</u> (\$150)
2018	College of Arts and Science Dean's Scholar to *Elizabeth Angi-O'Brien (\$750)
2018	Provost Student Academic Achievement Award to *Elizabeth Angi-O'Brien (\$1000)

▪ **GRADUATE STUDENT MENTORSHIP AND ADVISING**

PhD students, role: primary advisor (n=3)

- **Azadeh Sedaghat** started Fall 2022, written & oral comprehensive exam passed Fall 2023.
Preliminary Dissertation Title: Evaluating the nature of open magmatic systems in continental arc environments: a petrological and microgeochemical study of Andean and Cordilleran arc products
- **Aleksandra Gawronska** started Fall 2018, written & oral comprehensive exam passed Fall 2019, dissertation proposal passed Spring 2020, defended Spring 2023. *Graduated:* May 2023
Dissertation Title: Investigating Extraterrestrial Magmatic Processes: New Insights from the Physical and Chemical Characteristics of Apollo Basalts
Undergraduate institution: University of Notre Dame. Advisor: Dr. Clive Neal
Current position: Postdoctoral Research Fellow NASA Goddard Space Flight Center, Maryland.
- **Liannie Velázquez-Santana** started Fall 2018, written & oral comprehensive exams passed Fall 2019, dissertation proposal passed Spring 2020, defended Spring 2022. *Graduated:* Summer 2022
Dissertation Title: Transcrustal Arc Magmatic Systems: Mineralogical and Petrochronological Insights from Central Andean Cumulates and Crustal Xenoliths
Undergraduate institution: University of Puerto Rico, Mayagüez. Advisor: Dr. Tom Hudgins
Positions held: Postdoctoral Research Fellow, University of Texas, Austin (Sept. 2022 - Aug. 2023). Postdoctoral Research Fellow, University of Colorado, Boulder (Aug 2023 - present).

MS students, role: primary advisor (n=7)

- **Emily Waterhouse – current student**
Thesis title: Precambrian evolution of the Wyoming Craton: Geochronology of South Pass and Torrey Canyon, Wyoming.
- **TJ Cracas – current student**
Thesis title: Investigating Shonkinite Petrogenesis: Insights from the Adel Mountains Volcanic Field, Montana
- **Alex Schweitzer (Principal advisor)** graduated Aug 2023
Thesis title: New insights into the nature of the lunar crust: a petrophysical and petrochemical investigation of lunar meteorite DOM 18543
Current position: Research Scientist, Ohio Environmental Protection Agency (EPA)
- **Jared Brum (Principal advisor)** graduated May 2022
Thesis title: Insights into the early evolution of the Moon: petrological and geochronological constraints from lunar meteorite (ALH) A81005
Current position: Project Manager at Layne, OH
- **Daniel Blakemore (co-advised with Dr. Mark Krekeler)** graduated Summer 2020
Thesis title: Tracing the Origins of Pyrite at the Round Mountain Gold Mine, Nevada
Current PhD student at the University of Michigan, advisor: Dr. Adam Simon
- **Richard Brydon (Principal advisor)** graduated January 2019
Thesis title: Tracing magmatic processes in plutonic environments: Insights from apatite and rift-related granites
Current position: Geologist at Tetra Tech Consulting and Engineering Firm, WV (2019-)
- **Maureen Haley (Principal advisor)** graduated January 2019
Thesis title: Mineralogical Perspectives: using Mineral Chemistry to Unravel the Magmatic Architecture of Granitic Batholiths
Current position: Materials Test Technician, Advanced Testing Laboratory, Inc., OH (2021-)
Former position: Environmental Analyst at SanAir Technologies Laboratory, OH (2019-2021)

▪ **MEMBER OF GRADUATE STUDENT ORAL EXAM/DISSERTATION/THESIS COMMITTEES**

PhD students (n=16)

- **Mehrnaz Khalkhali** (*upcoming comprehensive exam Spring 2024*)
- **Abigale O'Connor** (*comprehensive exam Spring 2024*)
- **Zhiqing Su** (*comprehensive exam Spring 2024*)
- **Morgan Gillis** (*comprehensive exam Fall 2023, dissertation proposal defense Spring 2024*)
Dissertation title: Recruitment and Retention: Geoscience Majors and Shocked Minerals
- **Kailee Gokey** (*comprehensive exam Fall 2023, dissertation proposal defense Spring 2024*)
Dissertation title: Mineralogical and Geochemical Investigations of Environmental Contaminant Materials in the Midwest and Desert Southwest United States
- **Mauro Mingo** (*oral comprehensive exam Spring 2023, dissertation proposal defense Fall 2023*)
Dissertation title: Unveiling the Genesis and Magmatic Origins: A Comprehensive Study of Two Distinct Shield Volcanoes in Different Tectonic Settings
- **Jamshid Ahmadi** (*comprehensive exam Spring 2023, dissertation proposal defense Fall 2023*)
Dissertation title: Applications of Isotopes to Processes in Monogenetic Volcanism and Hydrothermal Systems
- **Wilnelly Ventura-Valentín** (*comprehensive exam Spring 2022, proposal defense Fall 2022*)
Dissertation title: Investigating Time-Varying Relationships Between Swarms, MS-AS, Slow Slip, and Seismicity Along the Mexican Megathrust and Sliver Fault
- **Nanci Reyes-Guzmán** (*comprehensive examination Fall 2021, proposal defense Spring 2022*)
Dissertation title: Unraveling the geochemical evolution of Holocene eruptions: Insights from single eruptions to monogenetic clusters in intra-plate and subduction settings
- **Madeline Ess** (*oral comprehensive examination January 2021, proposal Spring 2021*)
Dissertation title: Changes in Phanerozoic Ecospace Utilization
- **Calvin Anderson** (*Fall 2018 – Spring 2023*)
Dissertation title: A New Mechanism for Metal Isotope Fractionation Induced by Natural Solid-State Ion Conduction
- **Autumn Haagsma** (*Fall 2020 – Fall 2023*)
Dissertation title: Development of a Geologic Complexity Ranking System for Carbon Dioxide Storage to Inform Site Selection
- **Alex Kugler** (*Fall 2014 - Summer 2020*)
Dissertation title: Microbe Mineral Interactions: Cyanobacteria, Mineral Protection, and Banded Iron Formations
- **Brittany Cymes** (*Fall 2015 - Spring 2020*)
Dissertation title: Catalytic Properties of Novel Microporous Minerals
- **Wladek Betkowski** (*Fall 2014 - Spring 2018*)
Dissertation title: A Study of Phosphate Accessory Minerals, their Reactivities, Replacements and Geochronology: Implications for the Llallagua Tin Porphyry Emplacement and Mineralization
- **Elise Conte** (*Fall 2010 - Spring 2017*)
Dissertation title: Applications of Isotopes to Magmatic Processes, Eruption Ages, and Nuclear Forensics

MS students (n=22), MA student (n=1)

- **Omar Nuruzade** (*upcoming thesis proposal Spring 2024*)
- **Spencer Snell** (*Fall 2022 – Spring 2024*)
Thesis title: Investigation of Physical and Chemical Properties of Clay-Rich Mine Tailings from Tonopah, Nevada: Evaluating Recycling Potential
- **Jack Verbrugge** (*proposal defense passed Spring 2023*)
Thesis title: Mineral-bound trace metals as cofactors for biological nitrogen fixation by methanogens
- **Abigale O'Connor** (*Fall 2021 – Spring 2023*)
Thesis title: Using soil geochemistry to map historic and late Holocene floodplains, Four Mile Creek, Ohio
- **Stephanie Mounce** (*proposal defense passed Spring 2022*)
Thesis title: Globular Fluorite and Calcite Inclusions in Apatite: Possible Evidence of Immiscible Fluoritic and Calcitic Magmas in Wilberforce-area Vein Dikes, Ontario, Canada
- **Derreck Gossett** (*Fall 2021 – Summer 2023*)
Thesis title: Prevalence and Characteristics of Seismic Magnitude Clustering in Earthquake Catalogs
- **Justin Bank** (*proposal defense passed Spring 2022*)

- *Thesis title:* Mineralogy and Textures of Talc Ore from the Willow Creek Mine, Montana: Investigating Origins and Hazards in a Historic Industrial Mineral Source
- **Nick Jenkins** (Fall 2021 – Summer 2023)
Thesis title: Initial Characterization of Synthetic Goethite Post-Shock Compression using scanning electron microscopy indicates shock resistance
- **Kailee Gokey** (proposal defense passed Spring 2021, switched to PhD program)
Thesis title: The Nature and Distribution of Contaminants in Las Vegas, NV Street Sediments
- **Morgan Gillis** (Fall 2020 – Summer 2022)
Thesis title: Exploring naturally occurring asbestos in road sediment and possible links to mesothelioma
- **Noël Skocko** (Fall 2020 – Summer 2022)
Thesis title: Tracing the Geochemical Evolution of the Tacámbaro Cluster in the Michoacán-Guanajuato Volcanic Field in Central Mexico.
- **Alexia Rojas** (Fall 2019 - Winter 2022)
Thesis title: Investigating Sedimentologic and Structural Controls on the Deposition of the Triassic Ischigualasto Formation, San Juan Province, Argentina
- **Jennifer McClellan** (Fall 2019 – Fall 2021)
Thesis title: Rhyolite Magmatism in the Context of Silver and Gold Mineralization in Tonopah, Nevada: Field, Geochemistry and Remote Sensing Approaches
- **Alex Ruley** (Fall 2019 – Summer 2021)
Thesis title: Geochemistry of arsenian pyrite in the major ore units of Round Mountain Gold Mine and implications for extraction processes
- **Whitney Lapic** (Fall 2019 - Spring 2021)
Thesis title: An Asynchronous Mesozoic Marine Revolution: Drilling Versus Durophagy in Post-Paleozoic Echinoids
- **Wilnelly Ventura-Valentín** (Fall 2019 - Spring 2021)
Thesis title: Characterization of swarm and aftershock behavior in Puerto Rico
- **Chris Emproto** (Fall 2018 – Summer 2020)
Thesis title: Anion and Trace Element Chemistry of Carbonate-Hosted Apatite in the Grenville Province
- **Lonnie Flett** (Fall 2017 – Summer 2020)
Thesis title: Providing new environmental health contexts for native American populations: An investigation of airborne particulate from the Midnite Mine, Spokane Indian Reservation, WA
- **Jared Wink** (Fall 2017 – Fall 2019)
Thesis title: Flexural partitioning of the Late Albian-Cenomanian Southern Cordilleran foreland-basin system, Utah, Wyoming, and Colorado
- **Caleb Chappell** (Fall 2016 – Spring 2018)
Thesis title: Chemical and Structural Characterization of Fluorapatite from the Poudrette Pegmatite, Mont Saint-Hilaire, Québec, Canada
- **Hannah Kempf** (defended Spring 2018, combined BS-MS degree)
Thesis title: Fossil Food Webs Reveal Consequences of Invasive Species
- **Mack Taylor** (Fall 2015 – Fall 2017)
Thesis title: Gold from the Type 4 Ore of Round Mountain, Nevada: A Textural and Mineralogical Study of Macrocrystalline and Disseminated Gold

▪ **UNDERGRADUATE STUDENT MENTEES (n=29)**

- **Audrey Allen**, current junior (co-advisor with Dr. Mark Krekeler)
- **Juliana Curtis**, current senior (NSF GRFP applicant, Fall 2023; pursuing graduate school)
- **Zachary Ellia**, current senior (NSF GRFP applicant, Fall 2023; pursuing graduate school)
- **Devante Harris**, current freshman
- **Jack Gugino**, current senior
- **Jamie Odling**, current senior
- **Hannah Wudke**, current senior (NSF GRFP applicant, Fall 2023; pursuing graduate school)
- **Landon Stitle**, graduated Dec 2023, Project Geologist with Jacobs, Cincinnati, OH
- **Sarah Gorman**, graduated May 2023; current MS student at the University of Michigan, MI
- **Kinshuk Tella**, graduated May 2023; current intern with the American Association of People with Disabilities, Washington DC
- **Drew Wolf**, graduated May 2023; Geological Technician, Virginia Department of Energy, VA

- **Emily Mazurek**, graduated May 2023; Environmental Field Technician, Montrose Environmental Group, IL
- **Katie Caudill**, graduated May 2023; Science Teacher, Marshall High School, Middletown, OH
- **Simeon Maglich**, graduated Dec. 2022: Environmental Consultant at Trihydro Corporation
- **Lauren Doepke**, graduated May 2022; Policy Analyst at Ferox Strategies, Washington DC
- **Ethan Klein**, graduated May 2022; Geologist at Nevada Gold Mines, CA.
- **Kevin Woeste**, graduated May 2022; Indiana Geological & Water Survey, Indiana University, IN
- **Ruthy Rutherford**, graduated May 2022; Environmental Specialist II at Ohio EPA, OH
- **Mitchell Duncan**, graduated May 2022; Geologist with SMEUSA, OH
- **Raghad Al Gbory**, graduated May 2021; Wellsite Geologist with Columbine Corporation, TX
- **Kali Manning**, graduated May 2021; Quality Assurance Supervisor at Diversey, Cincinnati, OH
- **Jessica Patrick**, graduated May 2021; MS student at Auburn University, AL
- **Jordan Vest**, graduated May 2021; Research Analyst, Cortex Sustainability Intelligence, TN
- **Andrew Bollinger** graduated May 2020: current PhD student at Michigan State University
- **Jared Brum** graduated May 2020 (MS student at Miami University Fall 2020 – Spring 2022); Project Manager at Layne Christensen, Hamilton, OH.
- **Claudia Dawson** graduated May 2020; MS student at Baylor University Fall 2020 – Summer 2022); Geologist at POWER Engineers, Columbus, OH
- **Jennifer Davis** graduated May 2020: current PhD student at the University of Colorado, Boulder
- **Ciara Childers** graduated May 2019: Environmental Field Technician-Groundwater Specialist, Institute of Ecolonomics (2019-2022); Project Geologist, Jett Environmental Consulting (2022-)
- **David Beka Binyam** graduated December 2018: GIS technician, Duke Energy, OH; Oracle Database Administrator, Cardinal Health (present)

▪ **INVITED TALKS** (n=12, *undergraduate student, graduate student)

- 2023 **McLeod, C. L.** Insights into the Geological Evolution of the Moon from Apollo Basalts and Lunar Meteorites. *Wharton County Junior College Seminar Series, TX, April.*
- 2022 **McLeod, C. L.** What is the Moon made of? Evaluating Lunar Geological Processes through Petrology and Geochemistry. *Ohio State University Seminar Series, September.*
- 2020 **McLeod, C. L., Velazquez-Santana, L. C., Blakemore, D.,** Shaulis, B. J., Hill, T. Investigating the Depths of Continental Arc Magmatic Systems: Insights from Hornblendite Cumulates from the Bolivian Central Andes. *Ball State University Graduate Colloquium, February.*
- 2019 **McLeod, C. L., Gawronska, A. J., *Brum, J., Blakemore, D.,** Cronenberger, K., Hanna, R., Duley, M., Edelmann, R., Shaulis, B. J., Zeigler, R. Making Sense of the Moon: Insights from Lunar Mineralogy. Microscopy Society of the Ohio River Valley Fall meeting, Dayton, OH.
- 2018 **McLeod, C. L.,** Evans, D. Innovations in Curriculum and Pedagogy: Global Learning at Miami. 2018 MAC Academic Leadership Conference, Miami University.
- 2018 **McLeod, C. L.** Earth's Moon: Magmatism, Mare, Meteorites and More. *University of Cincinnati Seminar Series, March.*
- 2017 **McLeod, C. L.** Undergraduate Research in an upper-level course: An example from Igneous and Metamorphic Petrology. Council on Undergraduate Research (CUR) workshop: Establishing and Sustaining an Undergraduate Research Program. American Geophysical Union (AGU) Fall Meeting. New Orleans, Louisiana, USA.
- 2017 **McLeod, C. L.,** Davidson, J. P., de Silva, S. L., Nowell, G. M. Continental Arc Magmatism: Insights from monogenetic volcanism in the back-arc of the Bolivian Andes. *University of Arkansas Colloquium, November.*
- 2017 **McLeod, C. L.,** Davidson, J. P., and de Silva, S. L. Probing the depths of Continental Arc Magmatism: Insights from the Minor Volcanic Centers of the Bolivian Andes. IAVCEI (International Association of Volcanoes and Chemistry of the Earth's Interior), Portland, Oregon, USA.
- 2016 **McLeod, C. L.** New insights into the early evolution of the Moon from Apollo and meteorite samples. *University of Oslo Seminar Series, Norway, June.*
- 2014 **McLeod, C. L.,** Brandon, A. D., and Armytage, R. M. G. Investigating the early evolution of the Moon from ¹⁴²Nd-¹⁴³Nd systematics of Apollo Basalts. Lunar and Planetary Institute (LPI), Houston, TX.
- 2012 **McLeod, C. L.,** Davidson, J. D., Nowell, G. M., de Silva, S. L., Schmitt, A. L. Building Continental Crust at an Active Margin: Compositional and Age Constraints from the Central Andes. *University of Houston Seminar Series, November.*

▪ **CONFERENCE CONTRIBUTIONS**

- **Oral Presentations, n=48** (*undergraduate student, graduate student)
- 2024 *Olding, J. **McLeod, C. L.**, Sedaghat, A. Geological Stories from the Deep: Xenoliths from Yellowstone National Park. Miami Undergraduate Research Forum, April 26th.
- 2024 *Law, B, Rech, J., Sedaghat, A., **McLeod, C. L.** Characterizing a Neolithic Game Piece from the Black Desert, Jordan. Miami Undergraduate Research Forum, April 26th.
- 2024 *Gugino, J., **McLeod, C. L.**, Sedaghat, A., Schweitzer, A., Shaulis, B. Petrography and Chemistry of Lunar Impact Glasses from Dominion (DOM) Range Lunar Meteorites DOM 18543 and 18666: Constraining Lunar Geology and Impact Flux. Joint 58th Annual North-Central/58th Annual South-Cetrak Section Meeting. Springfield, Missouri, April 21st-23rd.
- 2023 **McLeod, C. L.**, Sipola, M. Navigating the Hidden Curriculum in a First Semester Graduate Program Onboarding Course. 42nd annual Original Lilly Conference on College Teaching, Nov. 17th-19th, Miami University, Oxford, OH.
https://celt.miamioh.edu/lillycon/session_files/2023/McLeod_Sipola_proposal.pdf
- 2023 *Curtis, J., *Stittle, L., Sedaghat, A., **McLeod, C. L.**, Shaulis, B. J., Brown, K., Krekeler, M. P. S. An Integrated Petrological, Geochemical, and Geochronological Study of Megacrystic K-Feldspars from Cretaceous-Ages Intrusions, Central Nevada: Insights into Earth's Magmatic Record Keepers. Annual Geological Society of America Meeting, Pittsburgh, PA, Oct 15th-18th.
<https://gsa.confex.com/gsa/2023AM/webprogram/Paper391155.html>
- 2023 *Stittle, L., *Curtis, J., Sedaghat, A., **McLeod, C. L.**, Krekeler, M. P. S., Brown K. Insights into Mafic Magma Contributions Through the Study of Amphibole-rich Mafic Enclaves in Mesozoic Granite Intrusions, Nevada. Annual Geological Society of America Meeting, Pittsburgh, PA, Oct 15th-18th.
<https://gsa.confex.com/gsa/2023AM/webprogram/Paper390504.html>
- 2023 **McLeod, C. L.**, Sipola, M., Brudzinski, M., Krekeler, M. P. S. Supporting Student Success in Graduate Geoscience Programs Through a First Semester Onboarding Course. 57th North-Central Geological Society of America Section Meeting. May 4th-5th, Grand Rapids, MI.
<https://gsa.confex.com/gsa/2023NC/webprogram/Paper386504.html>
- 2023 Sedaghat, A., **McLeod, C. L.** Insights into the Source of Continental Arc Magmatism: A Study of Mafic Mineral Clusters from the Central Andes. 57th North-Central Geological Society of America Section Meeting. May 4th-5th, Grand Rapids, MI.
<https://gsa.confex.com/gsa/2023NC/webprogram/Paper386739.html>
- 2023 Sipola, M., Ventura-Valentin, W., O'Connor, A., **McLeod, C. L.**, Brudzinski, M. Working Together Toward Equity: Goals, Projects, and Next Steps of the Miami University URGE Pod and Department DEI Committee. 57th North-Central Geological Society of America Section Meeting. May 4th-5th, Grand Rapids, MI.
<https://gsa.confex.com/gsa/2023NC/webprogram/Paper386957.html>
- 2023 *Stoltzfus, A., Bank, J., Jenkins, N., *Wudke, H., **McLeod, C. L.**, Krekeler, M. P. S. A Mineralogical Investigation of a Historical Silicic Consumer Talc Product: Initial Electron Microscopy Reveals Particles of Concern. 57th North-Central Geological Society of America Section Meeting. May 4th-5th, Grand Rapids, MI.
<https://gsa.confex.com/gsa/2023NC/webprogram/Paper386846.html>
- 2023 *Wudke, H., Bank, J., Gillis, M., *Curtis, J., **McLeod, C. L.**, Krekeler, M. P. S. Initial Electron Microscopy Investigations of Historical Talc Ore Samples from the Yellowstone Mine, Montana. 57th North-Central Geological Society of America Section Meeting. May 4th-5th, Grand Rapids, MI.
<https://gsa.confex.com/gsa/2022AM/webprogram/Paper380206.html>
- 2023 **McLeod, C. L.**, Brum, J. T., Loocke, M., Shaulis, B., Gawronska, A. J. Allan Hills (ALHA) 81005 40 Years On: New Insights from Dunitic and Troctolitic Mg-suite Clasts. 54th Lunar and Planetary Science Conference, March 13th-17th, #2979.
<https://www.hou.usra.edu/meetings/lpsc2023/pdf/2979.pdf>
- 2022 Gawronska, A. J., **McLeod, C. L.**, Loocke, M., Shaulis, B. The evidence for Open Magmatic System Processes Recorded in the Crystal Cargoes of Lunar Basalts. American Geophysical Union Annual Meeting, Chicago, IL, Dec. 12th-16th.
- 2022 Velázquez Santana, L. C., **McLeod, C. L.**, Shaulis, B., Loocke, M., **Al Gbory, R.* Trans Crustal Magmatic Processes as Revealed by Multiple Amphibole Crystal Cargoes at the Quillacas Volcanic Center, Bolivia. GSA Meeting, Oct. 9th-12th, Denver, CO.
<https://gsa.confex.com/gsa/2022AM/webprogram/Paper380402.html>
- 2022 **McLeod, C. L.**, Curl, A., Sellers, S. The Use of Course Evaluations for Formative and Summative Instructional Improvement. 41st annual Original Lilly Conference on College Teaching, Nov. 17th-19th, Miami University, Oxford, OH.

- http://celt.miamioh.edu/lillycon/session_files/2022/McLeod_etal_proposal.pdf
- 2022 **McLeod, C. L.**, Krekeler, M. P. S. Supporting Student Professional Development in the (Geo)sciences: Observations, Reflections, and Recommendations from a NSF GEOPaths program. Annual Geological Society of America Meeting, Denver, CO, Oct 9th-12th.
- 2022 *Ellia, Z., *Murchland, M., *Wolf, D., *Baldasare, A., **McLeod, C. L.**, Currie, B. S. Communicating Earth's Geological History Through Trail Guides: An Example from Torrey Canyon, Wyoming. Annual Geological Society of America Meeting, Denver, CO, Oct 9th-12th.
<https://gsa.confex.com/gsa/2022AM/webprogram/Paper382872.html>
- 2022 Scully, J. E. C., Ceretti, G., Viswanathan, A., Steckloff, J. F., Richey, C., Probst, A., Poh, G., Melwani Daswani, M., **McLeod, C. L.**, Moa, X., Lillis, R., Kumari, N., Kraus, H., Hoogenboom, T., Hay, H., Goudge, T. A., Fayolle, E. C., Elder, C. M., Diniega, S., Daftry, S., Byrne, P. K., Brooks, S. M., Blank, J. G., Becerra, P., Bandyopadhyay, S., Hughson, K. H. G. Foreign Nationals Employed and Studying in the Field of Planetary Research in the United States, and Recommendations for Supporting this Group. Advancing IDEA in Planetary Science, Lunar Planetary Institute (*virtual*) April 25th-29th; #2002.
<https://www.hou.usra.edu/meetings/advancingidea2022/pdf/2008.pdf>
- 2022 *Woeste, K., **McLeod, C. L.** A Petrographic Analysis of Shonkinites in the Adel Mountain Range. 28th Annual Miami Undergraduate Research Forum, (*virtual*), April 20th; #B20.
- 2022 Brown, K., Loocke, M., **McLeod, C. L.**, *Dewaelsche, P. Using Microanalytical Techniques to Unravel K-feldspar Megacryst Formation. Joint 56th annual North-Central/71st annual southeastern Geological Society of America Section Meeting. April 7th-8th, Cincinnati, OH.
<https://gsa.confex.com/gsa/2022NC/webprogram/Paper375266.html>
- 2022 *Rutherford, M., **McLeod, C. L.** Global Education Outreach for Diversifying the Earth Sciences (GEODES): Engaging High School Students with Geoscience Materials and Investigating Ohio High School Teachers Familiarity with the Earth Sciences. Joint 56th annual North-Central/71st annual southeastern Geological Society of America Section Meeting. April 7th-8th, Cincinnati, OH.
<https://gsa.confex.com/gsa/2022NC/webprogram/Paper375808.html>
- 2021 Velázquez Santana, L. C., **McLeod, C. L.**, Brown, K. Establishing the Continental Crust of the Central Andes: Insights from Zircons in Bolivian Crustal Xenoliths. American Geophysical Union Fall Meeting, December 13th-17th, New Orleans, LA.
- 2021 Gawronska, A. J., **McLeod, C. L.**, Gilmour, C. M. X-ray Computed Tomography for the Analysis of the Materials Collected at the Lunar South Pole. Annual Meeting of the Lunar Exploration Analysis Group (LEAG), August 31st-September 2nd (*virtual*).
<https://www.hou.usra.edu/meetings/leag2021/pdf/5012.pdf>
- 2021 Gawronska, A. J., **McLeod, C. L.**, Blumenfeld, E. H., Hanna, R., Zeigler, R. A. New Insights into Lunar Basalt Flow Morphologies from X-Ray Computed Tomography of Apollo Basalt Samples. Tomography for Scientific Advancement - North America (ToScANA). May 24th-26th.
- 2021 *Duncan, M., **McLeod, C. L.**, Velázquez Santana, L. C. Evaluating Magma Ascent Rates Beneath Central Andean Monogenetic Volcanoes. National Conference on Undergraduate Research (NCUR), April 12th-14th. https://apps.cur.org/ncur2021/search/Display_NCUR.aspx?id=112415
- 2021 Gawronska, A. J., **McLeod, C. L.**, Blumenfeld, E. H., Hanna, R., Zeigler, R. A. A New Dimension to Lunar Magmatism: New Interpretations of Apollo Basalt Petrogenesis from X-Ray Computed Tomography. 52nd Lunar and Planetary Science Conference, March 15th-19th, #1090
<https://www.hou.usra.edu/meetings/lpsc2021/pdf/1090.pdf>
- 2021 Ireland, S. M., **McLeod, C. L.**, Gawronska, A. J., Brum, J., Shaulis, B. New Insights into the Geological Evolution of the Moon via Petrologic Investigation of Lunar Basaltic Meteorites Dominion Range (DOM) 18262 and 18666. 52nd Lunar and Planetary Science Conference, March 15th-19th, #2646 <https://www.hou.usra.edu/meetings/lpsc2021/pdf/2646.pdf>
- 2020 Gawronska, A. J., **McLeod, C. L.**, Blumenfeld, E., Hanna, R., Zeigler, R. CT scans of lunar rocks: New interpretations and insights into sample preservation. Annual Graduate Student Research Forum, Miami University, Nov. 6th.
- 2020 Brum, J. T., **McLeod, C. L.**, Shaulis, B., Loocke, M. From the Moon to Miami: New Geological Insights from the First Lunar Meteorite. Annual Graduate Student Research Forum, Miami University, Nov. 6th.
- 2020 Schelin, I., **McLeod, C. L.**, Shaulis, B. New Insights into the Early Geological Evolution of our Solar System via Recently Discovered Lunar Meteorites from Antarctica. Annual Graduate Student Research Forum, Miami University, Nov. 6th.
- 2020 Velázquez-Santana, L. C., **McLeod, C. L.**, Bucholz, C. E. Initial Characterization of Sulfides in

- Central Andean Arc Hornblende Cumulates via Scanning Electron Microscopy (SEM). Annual Geological Society of America Meeting, GSA 2020 Connects online: October 26th-30th.
<https://gsa.confex.com/gsa/2020AM/webprogram/Paper356694.html>
- 2020 Gawronska, A. J., Hughes, M. R., **McLeod, C. L.** Comparison of select major elements within the Apollo basalt suite via cluster analysis. Goldschmidt Virtual Meeting.
<https://goldschmidtabstracts.info/abstracts/abstractView?id=2020001295>
- 2020 Velázquez-Santana, L. C., **McLeod, C. L.**, Shaulis, B., Brown, K. Bolivian Crustal Xenoliths: Petrochronological Constraints on the history of the Central Andean Continental Crust. Goldschmidt Virtual Meeting.
<https://goldschmidt.info/2020/abstracts/abstractView?id=2020001243>
- 2020 *Lindeman, C., Flett, L., Ruley, A., **McLeod, C. L.**, Krekeler, M. P. S. Initial Investigation of samples of the Virtue Mine, Oregon: A study in the Textural, Mineralogical, and Geochemical Properties of Gold Bearing Quartz Vein Deposits. 54th GSA North-Central Section Meeting, Duluth, MN.
<https://gsa.confex.com/gsa/2020NC/webprogram/Paper347811.html>
- 2020 Ruley, A., **McLeod, C. L.**, *Lindeman, C., *Oglesbee, T., *Klein, E., *Patrick, J., *Fouh Mbindi, M., Taylor, M., Blakemore, D., Krekeler, M. P. S. A review of recent progress in understanding gold mineralization and petrology at the Round Mountain Gold Mine, Central Nevada. 54th GSA North-Central Section Meeting, Duluth, MN.
<https://gsa.confex.com/gsa/2020NC/webprogram/Paper347845.html>
- 2019 Blakemore, D., Krekeler, M. P. S., **McLeod, C. L.** The Hidden Value of Fool's Gold: A Search for "Invisible" Gold at the Round Mountain Mine, Nevada. Annual Graduate Student Research Forum, Miami University, Nov. 1st.
- 2019 *Dawson, C., *Ord, S., Sturmer, D. M., Chappell, J. C., **McLeod, C. L.**, Krekeler, M. P. S. An initial X-ray Fluorescence, X-ray diffraction, and reflective spectroscopy investigation of mine waste from Tonopah, Nevada. Annual Geological Society of America Meeting, Phoenix, AZ.
<https://gsa.confex.com/gsa/2019AM/webprogram/Paper338361.html>
- 2019 Velázquez-Santana, L. C., **McLeod, C. L.**, Blakemore, D., Shaulis, B. J. Bolivian Cumulate Hornblende Enclaves: Insights into the Depths of Central Andean Arc Magmatic Systems. Annual Geological Society of America Meeting, Phoenix, AZ.
<https://gsa.confex.com/gsa/2019AM/webprogram/Paper332475.html>
- 2019 **McLeod, C. L.**, Davidson, J. P., de Silva, S. L., Velázquez-Santana, L. C. Insights into Transcrustal Processes Beneath Continental Monogenetic Volcanoes from Minor Centers on the Bolivian Altiplano. Annual Geological Society of America Meeting, Phoenix, AZ.
<https://gsa.confex.com/gsa/2019AM/webprogram/Paper341323.html>
- 2019 **McLeod, C. L.**, and Stern, R. J. Game On! Enhancing Student Learning and Engagement in Petrology through Game Based Learning (GBL). Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/meetingapp.cgi/Paper/332354>
- 2019 Velázquez-Santana, L. C., and **McLeod, C. L.** Mafic Enclaves from the Central Andes: Investigating the Magmatic Plumbing Systems of Continental Arcs. Joint 53rd South-Central/53rd North-Central/71st Rocky Mountain Section Geological Society of America Meeting, Manhattan, KS.
<https://gsa.confex.com/gsa/2019SC/webprogram/Paper326426.html>
- 2019 **McLeod, C. L.**, Gawronska, A. J., *Brum, J., Blakemore, D., Cronenberger, K., Hanna, R., Duley, M., Edelman, R., Shaulis, B. J., Zeigler, R. Mineralogy of Meteorites: What is the Moon made of? 7th Annual Midwest Mineralogical Symposium, Miami University, OH, March 9th.
- 2018 Gawronska, A. J., **McLeod, C. L.**, Zeigler, R. Analyzing Moon Rocks: Is 3D Better than 2D? Annual Graduate Student Research Forum, Miami University, Nov. 9th.
- 2018 Blakemore, D., **McLeod, C. L.**, Krekeler, M. P. S. Unravelling the Evolution of the Round Mountain Gold Mine: Insights from the Mineral Zircon (ZrSiO₄). Annual Graduate Student Research Forum, Miami University, Nov. 9th.
- 2018 Brydon, R. J., **McLeod, C. L.**, Haley, M., Shaulis, B. J., Trønnes, R. Accessory minerals as recorders of granitoid magma petrogenesis: Insights from Apatite. Geological Society of America (GSA) Annual Meeting, Indianapolis, Indiana, USA.
<https://gsa.confex.com/gsa/2018AM/webprogram/Paper320310.html>
- 2018 Krekeler, M. P. S., Burke, M., Allen, C. S., Loertscher, C., **McLeod, C. L.**, *Dawson, C. Hyperspectral Remote Sensing Techniques for Crime Scene Investigation: Progress on Building a Novel Library and Remote Sensing Software Tool to Find Humans and Objects in the Environment. Midwestern Association of Forensic Scientists Meeting, Indianapolis, Indiana.
- 2018 Brandon, A. D., **McLeod, C. L.**, Rankenburg, K., Becker, H. Evaluating Nd Nucleosynthetic

Anomalies in Enstatite Chondrites. Annual Goldschmidt Meeting, Boston, USA.
<https://goldschmidtabstracts.info/2018/266.pdf>

2018 **McLeod, C. L.**, and Krekeler, M. P. S. In Search of Extraterrestrial Resources: to the Earth's Moon and Beyond. Ohio Academy of Science Annual Meeting, Bowling Green State University, Ohio, USA.

○ **Poster presentations n=94** (*undergraduate student, graduate student)

2024 *Harris, D., **McLeod, C. L.**, Lytle, M. What is it made of? Using X-ray Diffraction (XRD) to investigate the composition of materials. Miami Undergraduate Research Forum, April 26th.

2024 Cracas, T., **McLeod, C. L.**, Sedaghat, A., Shaulis, B., Krekeler, M. P. S. Preliminary Petrological Insights into Shonkinite Magmatism from the Adel Hills Volcanic Field, Montana. 73rd Southeastern Geological Society of America Section Meeting, April 15th-16th, Asheville, NC.

2024 *Zimmerer, M., *Hoover, A., *Stoltzfus, A., *Wudke, H., Lytle, M., Shaulis, B., **McLeod, C. L.**, Krekeler, M. P. S. Characterization of Selected Blush, Bronzer and Foundation Cosmetic Products in the Context of Consumer Health & Safety and Forensics. 73rd Southeastern Geological Society of America Section Meeting, April 15th-16th, Asheville, NC.

2024 *Belak, E., *Wudke, H., Lytle, M., Shaulis, B., **McLeod, C. L.**, Krekeler, M. P. S. initial mineralogical and geochemical evaluation of talc crayons from China. 73rd Southeastern Geological Society of America Section Meeting, April 15th-16th, Asheville, NC.

2024 *Ankeney, G., Lytle, M., Shaulis, B., **McLeod, C. L.**, Velázquez Santana, L., Ventura-Valentín, W., Krekeler, M. P. S. initial trace element and pollution analysis of road sediment associated with the AES power plant, Guayama, Puerto Rico. 73rd Southeastern Geological Society of America Section Meeting, April 15th-16th, Asheville, NC.

2024 *Gugino, J., **McLeod, C. L.**, Sedaghat, A., Schweitzer, A. R., Shaulis, B. Insights into the Lunar Impact Glass Record from Dominion (DOM) Range Lunar Meteorites DOM 18543 and 18666. 55th Lunar and Planetary Science Conference, The Woodlands, TX, Mar. 11-15th. [Abstract #2049](#).

2023 *Allen, A., *Zimmerer, M., *Amick, D., Velázquez Santana, L. C., O'Connor, A., Ventura-Valentín, W., Vest, J., *Krekeler, E., **McLeod, C. L.**, Krekeler, M. P. S., Lytle, M. Characterization of sands from Playa Las Golondrinas in Isabel, Puerto Rico for Applications in Environmental Geotechnologies. Annual Geological Society of America Meeting, Pittsburgh, PA, Oct 15th-18th.
<https://gsa.confex.com/gsa/2023AM/webprogram/Paper390513.html>

2023 *Ellia, Z., **McLeod, C. L.**, Krekeler, M. P. S. SEM analysis and U-Pb detrital zircon dating of sand from an active dune system near Tonopah, Nevada. Annual Geological Society of America Meeting, Pittsburgh, PA, Oct 15th-18th.
<https://gsa.confex.com/gsa/2023AM/webprogram/Paper392683.html>

2023 Snell, S., *Belak, E., **McLeod, C. L.**, Krekeler, M. P. S. Physical and chemical properties of clay-rich mine tailings from Tonopah, Nevada: Evaluating recycling potential. Annual Geological Society of America Meeting, Pittsburgh, PA, Oct 15th-18th.
<https://gsa.confex.com/gsa/2023AM/webprogram/Paper392563.html>

2023 Almquist, C., **McLeod, C. L.**, Coates, R., Boone, M., Brown, J. S., Davis, A., Inclezan, D., Qiu, X., Vaughn, A., Yousefi, A., Zhang, J. ESTEAM: Equity in STEM at Miami University. 2023 ADVANCE Equity in STEM Community Convening (EiSCC), Durham, NC.

2023 *Fierman, A., Gillis, M., Gokey, K., **McLeod, C. L.**, Krekeler, M. P. S. Initial Investigation of Road Sediment as a Tracer of Pollution in the Local Environment, near a Vacant Property in Hamilton, Ohio. 57th North-Central Geological Society of America Section Meeting. May 4th-5th, Grand Rapids, MI. <https://gsa.confex.com/gsa/2023NC/webprogram/Paper386790.html>

2023 **McLeod, C. L.**, Schweitzer, A., Gawronska, A. J., Brum, J., Loocke, M., Shaulis, B. J. Petrological Characterization of Dominion Range (DOM) Lunar Meteorites 18666 and 18543. 57th North-Central Geological Society of America Section Meeting. May 4th-5th, Grand Rapids, MI.
<https://gsa.confex.com/gsa/2023NC/webprogram/Paper386815.html>

2023 *Zimmerer, M., Morgan, G., Gokey, K., Argyilan, E. P., **McLeod, C. L.**, Krekeler, M. P. S. Characterization of Technogenic Magnetic Particles (TMPS) Within the Context of Urban Pollution in Gary, Indiana. 57th North-Central Geological Society of America Section Meeting. May 4th-5th, Grand Rapids, MI. <https://gsa.confex.com/gsa/2023NC/webprogram/Paper386746.html>

2023 *Mazurek, E., **McLeod, C. L.**, Currie, B. S., Sedaghat, A. Igneous and Metamorphic Petrology of the Precambrian Basement at South Pass, Wyoming. Geoscience Student Research Symposium, April 24th, Miami University, OH.

- 2023 Wolf, D., **McLeod, C. L.**, Currie, B. S., Sedaghat, A. Petrology of Archean Basement Rocks. Insights from Torrey Canyon, WY. Geoscience Student Research Symposium, April 24th, Miami University, OH.
- 2022 Schweitzer, A. R., **McLeod, C. L.**, Shaulis, B., Loocke, M. New Petrological Insights into a Lunar Basaltic Breccia Meteorite from the Dominion Range, Antarctica: DOM 18543. American Geophysical Union Annual Meeting, Chicago, IL, Dec. 12th-16th.
- 2022 Gawronska, A. J., **McLeod, C. L.**, Loocke, M., Shaulis, B. Stories Told by Rocks from Other Worlds: Petrogenetic Histories of Lunar Magmatic Systems as Told by Apollo Basalt Crystal Cargoes. Annual Graduate Student Research Forum, Miami University, Nov. 4th.
- 2022 Sipola, M., **McLeod, C. L.**, Brudzinski, M., Krekeler, M. P. S., Tyler, C. Preparing Graduate Students for Success: Designing and Implementing an Onboarding Course. 41st Lilly Conference on College Teaching, Miami University, OH.
http://celt.miamioh.edu/lillycon/session_files/uploads/2022_no11063_Conference_poster.pdf
- 2022 *Wudke, H., Jenkins, N., Gillis, M., Bank, J., **McLeod, C. L.**, Krekeler, M. P. S. Initial Electron Microscopy Investigations of Historical Talc Ore Samples from the Yellowstone Mine, Montana. GSA Meeting, Oct. 9th-12th, Denver, CO.
<https://gsa.confex.com/gsa/2022AM/webprogram/Paper380206.html>
- 2022 *Wolfe, C., Brown, K., Loocke, M., **McLeod, C. L.** Megacrystic Potassium Feldspar Magmatism in the southern Mojave Desert, California. GSA Meeting, Oct. 9th-12th, Denver, CO.
<https://gsa.confex.com/gsa/2022AM/webprogram/Paper380460.html>
- 2022 *Stittle, L., *Curtis, J., **McLeod, C. L.**, Brown, K., Krekeler, M. P. S. A Petrographic Study of the Shoshone Granite, Central Nevada: New Insights into Mesozoic Arc Magmatism and Oligocene Mineralization at the Round Mountain Gold Mine. GSA Meeting, Oct. 9th-12th, Denver, CO.
<https://gsa.confex.com/gsa/2022AM/webprogram/Paper381262.html>
- 2022 *Sperry, M., *Beckham Pate, S., *Merz, M., Gillis, M., Gokey, K., Krekeler, M. P. S., **McLeod, C. L.** An Investigation of Patterned Ground in the Big Smokey Valley, South Central Nevada. Annual Geological Society of America Meeting, Denver, CO, Oct 9th-12th.
<https://gsa.confex.com/gsa/2022AM/webprogram/Paper379273.html>
- 2022 *Gorman, S., Gillis, M., Gokey, K., Fouh Mbindi, M., **McLeod, C. L.**, Krekeler, M. P. S. Scanning Electron Microscopy Investigation of Urban Soils in a Redeveloping Region of Hamilton, Ohio Shows Evidence of Legacy Pollution. Annual Geological Society of America Meeting, Denver, CO, Oct 9th-12th. <https://gsa.confex.com/gsa/2022AM/webprogram/Paper379173.html>
- 2022 Gillis, M., Gokey, K., Krekeler, M. P. S., **McLeod, C. L.** The Role of Graduate Student Mentors in Undergraduate Research: Reflections and Recommendations for Developing Supportive Research Group Environments and Student Professional Development. Geological Society of America Meeting, Oct. 9th-12th, Denver, CO.
<https://gsa.confex.com/gsa/2022AM/webprogram/Paper382903.html>
- 2022 *Curtis, J., *Stittle, L., **McLeod, C. L.**, Brown, K., Krekeler, M. P. S. Petrogenesis of Late-Stage Quartz-rich, Aplitic, and Pegmatitic Veins in the Shoshone Granite, Central Nevada: Insights into Mesozoic Arc Magmatism. Geological Society of America Meeting, Oct. 9th-12th, Denver, CO.
<https://gsa.confex.com/gsa/2022AM/webprogram/Paper381062.html>
- 2022 *Beckham Pate, S. B., *Sperry, M., *Merz, M., Gokey, K., Gillis, M., **McLeod, C. L.**, Krekeler, M. P. S. An Initial Investigation of Desert Soils in the Big Smokey Valley, South Central Nevada. GSA Meeting, Oct. 9th-12th, Denver, CO.
<https://gsa.confex.com/gsa/2022AM/webprogram/Paper381173.html>
- 2022 *Dewaelsche, P., Brown, K., Loocke, M., **McLeod, C. L.** Constraining K-Feldspar Megacryst Growth through Investigations of Plagioclase Inclusions. Joint 56th annual North-Central/71st annual southeastern Geological Society of America Section Meeting. April 7th-8th, Cincinnati, OH.
<https://gsa.confex.com/gsa/2022NC/webprogram/Paper375291.html>
- 2022 Brum, J. T., **McLeod, C. L.**, Shaulis, B., Loocke, M. 40 Years of Studying Allan Hills (ALHA) 81005: What else could we possibly learn? Plenty! 53rd Lunar and Planetary Science Conference, March 7th-11th, #2756. <https://www.hou.usra.edu/meetings/lpsc2022/pdf/2756.pdf>
- 2022 Gawronska, A. J., **McLeod, C. L.**, Loocke, M., Shaulis, B. The Petrogenetic Histories of Lunar Magmatic Systems as told by Apollo Basalt Crystal Cargoes. 53rd Lunar and Planetary Science Conference, March 7th-11th, #1152. <https://www.hou.usra.edu/meetings/lpsc2022/pdf/1125.pdf>
- 2022 Ireland, S. M., **McLeod, C. L.**, Gawronska, A. J., Loocke, M. P., Shaulis, B. J. Petrogenesis of Lunar Basaltic Meteorite Dominion (DOM) Range 18666. 53rd Lunar and Planetary Science Conference, March 7th-11th, #2909. <https://www.hou.usra.edu/meetings/lpsc2022/pdf/2909.pdf>

- 2022 Schweitzer, A. R., McLeod, C. L., Shaulis, B. Geochemical and Petrologic Insights into a Lunar Basaltic Breccia: Dominion Range (DOM) 18543. 53rd Lunar and Planetary Science Conference, March 7th-11th, #2030. <https://www.hou.usra.edu/meetings/lpsc2022/pdf/2030.pdf>
- 2021 Gawronska, A. J., McLeod, C. L. New insights into lunar magmatism: Investigating open system processes in basaltic magma reservoirs on the Moon. American Geophysical Union Fall Meeting, December 13th-17th, New Orleans, LA.
- 2021 Ireland, S. M., McLeod, C. L., Gawronska, A. J., Shaulis, B. Insights into the Petrogenesis of Lunar Basaltic Breccia Dominion Range (DOM) 18666. American Geophysical Union Fall Meeting, December 13th-17th, New Orleans, LA.
- 2021 *Duncan, M. P., McLeod, C. L., Velázquez Santana, L. C. Insights into the Ascent Rates of Magmas Beneath Continental Arc Systems. GSA Meeting, Oct. 10th-13th, Portland, OR. <https://gsa.confex.com/gsa/2021AM/webprogram/Paper371305.html>
- 2021 *Maglich, S., Krekeler, M. P. S., McLeod, C. L., Shaulis, B., Gokey, K., Gillis, M. Scanning Electron Microscopy Investigations of Oxides and Sulfides from Mine Waste in Tonopah, Nevada. GSA Meeting, Oct. 10th-13th, Portland, OR. <https://gsa.confex.com/gsa/2021AM/webprogram/Paper364973.html>
- 2021 *Tella, K., Krekeler, M. P. S., McLeod, C. L., Gillis, M., Gokey, K. Initial Investigations of Lead Chromate Traffic Paint in the Midwest United States: Charting a path Forward for Investigating a Potential Source of Lead and Hexavalent Chromium Pollution. GSA Meeting, Oct. 10th-13th, Portland, OR. <https://gsa.confex.com/gsa/2021AM/webprogram/Paper368829.html>
- 2021 Gawronska, A. J., McLeod, C. L., Gilmour, C. M. X-ray Computed Tomography for the Analysis of the Materials Collected at the Lunar South Pole. Annual Meeting of the Lunar Exploration Analysis Group (LEAG), August 31st-September 2nd (virtual). <https://www.hou.usra.edu/meetings/leag2021/pdf/5012.pdf>
- 2021 *Al Gbory, R., McLeod, C. L., Velázquez Santana, L. C., Shaulis, B. Geochemical insights into magma dynamics beneath monogenetic volcanoes at active continental margins: constraints from amphibole and apatite crystal populations. National Conference on Undergraduate Research (NCUR), April 12th-14th (virtual). https://apps.cur.org/ncur2021/search/Display_NCUR.aspx?id=113025
- 2021 Ireland, S. M., McLeod, C. L., Gawronska, A. J., Brum, J. T., Shaulis, B. J. New Insights into the Geological Evolution of the Moon via Petrologic Investigation of Lunar Basaltic Meteorites Dominion Range 18262 and Dominion Range 18666. LPSC, March 15th-19th (virtual). <https://www.hou.usra.edu/meetings/lpsc2021/pdf/2646.pdf>
- 2021 Scully, J. E. C., Cerretti, G., Viswanathan, Steekloff, J. K., Richey, C., Probst, A., Poh, G., Melwani Daswani, M., McLeod, C. L., Mao, X., Lillis, R., Kumari, N., Kraus, H., Hoogenboom, T., Hay, H., Goudge, T. A., Fayolle, Elder, C. M., Diniega, S., Daftry, S., Byrne, P. K., Brooks, S., M., Blank, J. G., Becerra, P., Bandyopadhyay, S., (reverse alphabetization of co-authors from third onwards). Foreign Nationals Employed and Studying in Planetary Research in the United States, and Recommendations for Supporting this Group. 52nd Lunar and Planetary Science Conference #1493, March 15th-21st. (virtual, poster presentation). <https://www.hou.usra.edu/meetings/lpsc2021/pdf/1493.pdf>
- 2020 Patrick, J* Spasske, L., McLeod, C. L., Shaulis, B., Brown, K. Megacrystals from Magma: Microanalytical Approach to Investigating Megacrystic Crystallization Processes. Annual Geological Society of America Meeting, GSA 2020 Connects online: October 26th-30th. <https://gsa.confex.com/gsa/2020AM/webprogram/Paper357251.html>
- 2020 Patrick, J*, Vest, J*, Doepke, L*, Seibert, Z*, Dawson, C*, McLeod, C. L., Krekeler, M. P. S. Forensic Mineralogy: Utilizing the Mineralogical, Textural, and Spectral Properties of Makeup in Criminal Investigations. Annual Geological Society of America Meeting, GSA 2020 Connects online: October 26th-30th. <https://gsa.confex.com/gsa/2020AM/webprogram/Paper356705.html>
- 2020 *Algbory, R., Velázquez-Santana, L. C., McLeod, C. L., Shaulis, B. Tracking Amphibole Crystal Populations in Continental Arc Magmas through study of Andesites and Hornblendite Cumulates in the Central Andes, Bolivia. 54th GSA North-Central Section Meeting, Duluth, MN. <https://gsa.confex.com/gsa/2020NC/webprogram/Paper347987.html>
- 2020 *Doepke, L., Dawson, C., Vest, J., Oglesbee, T., Sturmer, D.M., Blakemore, D., McLeod, C. L., Krekeler, M. P. S. A review of the current understanding of the mineralogy and geochemistry of mine waste from Tonopah, Nevada: Implications for recycling and environmental Health. 54th GSA North-Central Section Meeting, Duluth, MN. <https://gsa.confex.com/gsa/2020NC/webprogram/Paper347964.html>

- 2020 *Oglesbee, T., *Brum, J., **McLeod, C. L.**, Krekeler, M. P. S. An SEM investigation of a native platinum crystal from Russia: Insight into variation, sourcing and compositional problems of a highly collectible mineral and important geologic resource. 54th GSA North-Central Section Meeting, Duluth, MN. <https://gsa.confex.com/gsa/2020NC/webprogram/Paper347961.html>
- 2020 *Vest, J., *Patrick, J., *Dawson, C., *Seibert, Z., **McLeod, C. L.**, Krekeler, M. P. S. Using Industrial Mineralogical Approaches to Combat Violence Against Women, Abductions and Human Trafficking: Preliminary Reflective Spectroscopy Investigations of Makeup. 54th GSA North-Central Section Meeting, Duluth, MN. <https://gsa.confex.com/gsa/2020NC/webprogram/Paper347849.html>
- 2020 *Manning, K., **McLeod, C. L.**, Krekeler, M. P. S. Producing Ceramic Materials as an Alternative Recycling Method for Mine Waste Remediation. Annual Undergraduate Research Forum, Miami University, April 29th. <https://blogs.miamioh.edu/undergraduate-research-forum/producing-ceramic-materials-as-an-alternative-recycling-method-for-mine-waste-remediation/>
- 2020 *Algobry, R., Velázquez-Santana, L. C., **McLeod, C. L.**, Shaulis, B. Evaluating the Evolution of Magmatic Systems on Earth: Insights from Volcanoes and their Minerals on the Bolivian Altiplano, South America, Annual Undergraduate Research Forum, Miami University, April 29th. <https://blogs.miamioh.edu/undergraduate-research-forum/evaluating-the-evolution-of-magmatic-systems-on-earth-insights-from-volcanoes-and-their-minerals-on-the-bolivian-altiplano-south-america-2/>
- 2020 *McCreary, L., **McLeod, C. L.**, Krekeler, M. P. S. Searching for the Gold in Fool's Gold: An Investigation of Nevada Pyrites. Annual Undergraduate Research Forum, Miami University, April 29th. <https://blogs.miamioh.edu/undergraduate-research-forum/searching-for-gold-in-fools-gold-an-investigation-of-nevada-pyrites/>
- 2020 **McLeod, C. L.**, Shaulis, B., *Brum, J., Gawronska, A. J. More Meteorites, More Insights! Five New Lunar Basaltic Meteorites from the Dominion Range. 51st Lunar Planetary Science Conference. <https://www.hou.usra.edu/meetings/lpsc2020/eposter/2634.pdf>
- 2020 Gawronska, A. J., **McLeod, C. L.**, Blumenfeld, E. H., Hanna, R., Zeigler, R. A. Magma Dynamics on the Moon: A Computed Tomography Investigation of Apollo Basalt Vesicularity. 51st Lunar Planetary Science Conference. <https://www.hou.usra.edu/meetings/lpsc2020/eposter/1245.pdf>
- 2020 *Brum, J., **McLeod, C. L.**, Shaulis, B., Loocke, M. Investigating the History of Allan Hills (ALHA) 81005: What a Meteorite's Components Can Tell Us About Its Past. 51st Lunar Planetary Science Conference. <https://www.hou.usra.edu/meetings/lpsc2020/eposter/2919.pdf>
- 2019 Velázquez-Santana, L. C., **McLeod, C. L.**, Blakemore, D., Shaulis, B. J., Brown, K. Xenoliths and Cumulates: Insights into the Petrological, Geochemical, and Geochronological Stratigraphy of the Central Andean Arc Crust. American Geophysical Union (AGU) Meeting, San Francisco, CA, T23G-0518. <https://ui.adsabs.harvard.edu/abs/2019AGUFM.T23G0518V/abstract>
- 2019 **McLeod, C. L.** Game on! Enhancing Student Learning and Engagement Through Game Based Learning in STEM. 39th Lilly Conference on College Teaching, Miami University, OH.
- 2019 Gawronska, A. J., **McLeod, C. L.**, Blumenfeld, E. H., Hanna, R., Zeigler, R. A. Analysis of Apollo Samples via X-Ray Computed Tomography. Annual Graduate Student Research Forum, Miami University, Nov. 4th.
- 2019 Krekeler, M. P. S., Burke, M., Chappell, J. C., *Dawson, C., *Brum, J., *Allen, C. S., **McLeod, C. L.**, Sturmer, D. M., Fackey, D., Tselepis Loertscher, C. Final phase of development for a hyperspectral search and discovery tool optimized for rescue, disaster management, and crime scene investigations. Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/webprogram/Paper338443.html>
- 2019 Velázquez-Santana, L. C., **McLeod, C. L.**, Blakemore, D., Shaulis, B., Brown, K. Crustal Xenoliths, their Zircon and Apatites: Investigating the Continental Basement beneath the Central Andes. Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/webprogram/Paper338072.html>
- 2019 Bollinger, A., McLeod, C. L., Blakemore, D., Shaulis, B., Brown, K., Currie, B. S. Zircon U-Pb Chronology of Western Wyoming Crustal Basement using LA-ICP-MS. Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/meetingapp.cgi/Paper/338456>
- 2019 *Oglesbee, T., Sturmer, D. M., **McLeod, C. L.**, Chappell, J. C., Krekeler, M. P. S. Mineralogical and Geochemical characterization of sands from an active Dune system near Tonopah, Nevada: Characterization of an environmental reference material. Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/webprogram/Paper338587.html>

- 2019 Doepke, L., McLeod, C. L., Krekeler, M. P. S. Transmission electron microscopy investigation of mine waste samples from Tonopah, Nevada. Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/webprogram/Paper338379.html>
- 2019 *Vest, J., Blakemore, D., Krekeler, M. P. S., **McLeod, C. L.** The mineralogical make-up of mine waste: Insights from abandoned silver mine waste piles. Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/webprogram/Paper340947.html>
- 2019 Blakemore, D., McLeod, C. L., Shaulis, B. J, Krekeler, M. P. S. Tracing the origins of pyrite at the Round Mountain Gold Mine, Nevada: A mineralogical and chemical investigation. Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/webprogram/Paper338416.html>
- 2019 *Lindeman, C., *Fouh Mbindi, M., Blakemore, D., **McLeod, C. L.**, Krekeler, M. P. S. Petrographic analysis of pyrite mineralization in association with gold of the Type 3 gold ore in the Round Mountain Mine, Nevada. Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/webprogram/Paper338534.html>
- 2019 *Patrick, J., *Klein, E., **McLeod, C. L.**, Blakemore, D., Krekeler, M. P. S., Shaulis, B. J. Petrogenesis of the Shoshone granite beneath the Round Mountain Gold Mine, Nevada. Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/webprogram/Paper335476.html>
- 2019 *Snyder, J., *Oglesbee, T., **McLeod, C. L.**, Krekeler, M. P. S. Grain size analysis and geotechnical properties of mine waste from Tonopah, Nevada: Initial steps toward recycling and remediation. Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/webprogram/Paper338634.html>
- 2019 *Seibert, Z., **McLeod, C. L.**, Blakemore, D., Krekeler, M. P. S. Volcanism associated with crustal extension in the basin and range. Annual Geological Society of America Meeting, Phoenix, AZ. <https://gsa.confex.com/gsa/2019AM/webprogram/Paper340873.html>
- 2019 Blakemore, D., McLeod, C. L., Krekeler, M. P. S. An Investigation of Ore Mineral Associations from the Round Mountain Gold Mine, Geological Society of America Cordilleran Section Meeting, Portland, OR. <https://gsa.confex.com/gsa/2019CD/webprogram/Paper329117.html>
- 2019 *Bollinger, A., **McLeod, C. L.**, Currie, B. S., Blakemore, D. Wyoming Crustal Basement: Investigating the United States' Oldest Continental Crust with Zircon. Annual Undergraduate Research Forum, Miami University, April 24th.
- 2019 *Brum, J. T., **McLeod, C. L.**, Gawronska, A. J., Shaulis, B. J., Duley, M., Edelmann, R., and Loocke, M. R. Early Lunar Chronology: Insights from Allan Hills (ALHA) 81005 Meteorite. Annual Undergraduate Research Forum, Miami University, April 24th.
- 2019 *Dawson, C., *Ord, S., Blakemore, D., Chappell C. J., Krekeler, M. P. S., **McLeod, C. L.** New Investigations of the Variation of Mineralogy of Mine Waste from the town of Tonopah, Nevada. Annual Undergraduate Research Forum, Miami University, April 24th.
- 2019 *Doepke, L., **McLeod, C. L.**, Krekeler, M. P. S. Mineralogical and Chemical Characterization of Silver Mine Waste: A Case Study from Tonopah, Nevada. Annual Undergraduate Research Forum, Miami University, April 24th.
- 2019 *Klein, E., *Patrick, J., **McLeod, C. L.**, Krekeler, M. P. S. Granitic Magmas Beneath the Round Mountain Gold Mine, Nevada. Annual Undergraduate Research Forum, Miami University, April 24th.
- 2019 *Lindeman, C., *Fouh Mbindi, M., Krekeler, M. P. S., **McLeod, C. L.** An Initial Petrographic Investigation of the Type 3 Gold Ore at the Round Mountain Mine, Nevada. Annual Undergraduate Research Forum, Miami University, April 24th.
- 2019 *Seibert, Z., **McLeod, C. L.**, Krekeler, M. P. S. Volcanism Associated with Crustal Extension in the Basin and Range Province, Nevada. Annual Undergraduate Research Forum, Miami University, April 24th.
- 2019 *Vest, J., *Gerdes, L., **McLeod, C. L.**, Krekeler, M. P. S. Investigating the Components of Mine Waste: Insights from Tonopah, Nevada. Annual Undergraduate Research Forum, Miami University, April 24th.
- 2019 Gawronska, A. J., McLeod, C. L., Blumenfeld, E. H., Hanna, R., Zeigler, R. A. Preliminary Analyses of Apollo 15 Sample 15085 via X-Ray Computed Tomography. 50th Lunar and Planetary Science Conference (LPSC), March 18th-22nd, TX, USA, #1660. <https://www.hou.usra.edu/meetings/lpsc2019/pdf/1660.pdf>

- 2019 Gawronska, A. J., and **McLeod, C. L.** Basalts: Insights into Planetary Magmatic Processes from the Moon and Earth. 50th Lunar and Planetary Science Conference (LPSC), March 18th-22nd, TX, USA, #3271. <https://www.hou.usra.edu/meetings/lpsc2019/pdf/3271.pdf>
- 2019 *Brum, J., **McLeod, C. L.**, Gawronska, A. J., Shaulis, B. J., Duley, M., Edelmann, R., and Loocke, M. R. Early Lunar Chronology: Insights from Allan Hills (ALHA) 81005 Meteorite. 50th Lunar and Planetary Science Conference (LPSC), March 18th-22nd, TX, USA, #2012. <https://www.hou.usra.edu/meetings/lpsc2019/pdf/2012.pdf>
- 2018 **McLeod, C. L.** Promoting Scientific CURE-iosity: Integrating a Course-based Undergraduate Research Experience (CURE) into an Upper-Level Geology Course. 38th Lilly Conference on College Teaching, Miami University, Oxford, Ohio, USA.
- 2018 Velázquez-Santana, L. C., **McLeod, C. L.** Crustal ARChitecture: Inputs and Outputs of Andean Magmatic Systems. Annual Graduate Student Research Forum, Miami University, Nov. 9th.
- 2018 Flett, L., **McLeod, C. L.**, Krekeler, M. P. S. The diversity of potentially toxic atmospheric particulate associated with the Midnite Uranium Mine, Spokane Indian Reservation: A scanning electron microscopy investigations of pinus ponderosa bark. Geological Society of America (GSA) Annual Meeting, Indianapolis, Indiana. <https://gsa.confex.com/gsa/2018AM/webprogram/Paper318471.html>
- 2018 *Fouh Mbindi M., **McLeod, C. L.**, Krekeler, M.P.S. Initial steps in exploring unconventional rare earth element resources in the Unites States: Forays into glaciogenic, siliciclastic and volcanic sediments. Geological Society of America (GSA) Annual Meeting, Indianapolis, Indiana. <https://gsa.confex.com/gsa/2018AM/webprogram/Paper318255.html>
- 2018 Haley, M. Y., **McLeod, C. L.**, Brydon, R. J., Wolfe, A., Shaulis, B., and Trønnes, R. Unravelling the Magmatic Architecture of Rift-Related Granitic Batholiths: Perspectives from Amphibole and Feldspar. Geological Society of America (GSA) Annual Meeting, Indianapolis, Indiana. <https://gsa.confex.com/gsa/2018AM/webprogram/Paper322107.html>
- 2018 *Angi-O'Brien, E., Haley, M. Y., **McLeod, C. L.**, Shaulis, B., and Brydon, R. J. Unravelling the Interactions of Synplutonic Magmas During Granitoid Crystallization. Geological Society of America (GSA) Annual Meeting, Indianapolis, Indiana. <https://gsa.confex.com/gsa/2018AM/webprogram/Paper321740.html>
- 2018 *Binyam, D. B., *Childers, C., **McLeod, C. L.**, Wolfe, A. Mafic Enclaves from the Quillacas Volcanic Centre in the Bolivian Andes: Insights into Arc Magmatic Systems. Geological Society of America (GSA) Annual Meeting, Indianapolis, Indiana. <https://gsa.confex.com/gsa/2018AM/webprogram/Paper319857.html>
- 2018 **McLeod, C. L.**, Shaulis, B. J., Brydon, R. J., Haley, M., *Angi-O'Brien, E., Trønnes, R. Assembly of Magmas in Earth's Upper Crust: Insights at the Micro and Macros Scale from Granitic Batholiths. Annual Goldschmidt Meeting, Boston, USA. <https://goldschmidtabstracts.info/2018/1739.pdf>
- 2018 *Angi-O'Brien, E., **McLeod, C. L.**, Haley, M. Y., and Shaulis, B. Magma Mingling: Unravelling Granite Crystallization One Crystal at a Time. Annual Undergraduate Research Forum, Miami University, Ohio, USA.
- 2018 *Childers, C., *Binyam, D. B., *Emrick, S., and **McLeod, C. L.** Unravelling the Magmatic Processes Beneath Arc Volcanoes: The Role of Amphibole and Feldspar. Annual Undergraduate Research Forum, Miami University, Ohio, USA.
- 2018 **McLeod, C. L.**, and Krekeler, M. P. S. On the Search for Rare Earth Element Resources: The Earth, Moon and Beyond. 49th Lunar Planetary Science Conference, The Woodlands, Texas, #1506. <https://www.hou.usra.edu/meetings/lpsc2018/pdf/1506.pdf>
- 2017 **McLeod, C. L.**, Brown, K, Brydon, R. J., Haley, M., Hill, T., Shaulis, B., Trønnes, R. G. Crystal Cargo Characterization: Unravelling Granite Petrogenesis through Combined MicroXRF Imaging and In-Situ Analysis. American Geophysical Union (AGU) Fall Meeting. New Orleans, Louisiana, USA. <https://ui.adsabs.harvard.edu/abs/2017AGUFM.V43C0546M/abstract>
- 2017 **McLeod, C. L.**, and *Angi-O'Brien, E. Get Interactive! Evaluating the Influence of Different Teaching Delivery Methods on Student Learning in an Introductory Geology Course. Geological Society of America (GSA) Annual Meeting, Seattle, Washington, USA. <https://gsa.confex.com/gsa/2017AM/meetingapp.cgi/Paper/294573>
- 2017 **McLeod, C. L.**, and Brandon, A. D. Insights into the Early Geological History of the Earth's Moon from Apollo Basalts and Meteorites. Annual Ohio Academy of Sciences Meeting, University of Cincinnati, Cincinnati, Ohio, USA.
- 2017 *Angi-O'Brien, E., **McLeod, C. L.**, Haley, M. Y., Brydon, R. J., Wolfe, A., and Shaulis, B. Magma Mingling: Unravelling Granite Crystallization One Crystal at a Time. Geological Society of America

(GSA) Annual Meeting, Seattle, Washington, USA.

<https://gsa.confex.com/gsa/2017AM/webprogram/Paper298248.html>

- 2017 Brydon, R. J., **McLeod, C. L.**, Haley, M. Y., Wolfe, A., Brown, K., Shaulis, B., and Trønnes, R. Breaking Up a Continent: Timing and Sources of Granitoid Magmatism in the Oslo Rift, Norway. Geological Society of America (GSA) Annual Meeting, Seattle, Washington, USA.
<https://gsa.confex.com/gsa/2017AM/webprogram/Paper299150.html>
- 2017 Haley, M. Y., **McLeod, C. L.**, Brydon, R. J., Wolfe, A., Shaulis, B., and Trønnes, R. Constructing Continental Crust: Tracking Petrogenesis of Granitic Batholiths of the Oslo Rift, Norway. Geological Society of America (GSA) Annual Meeting, Seattle, Washington, USA.
<https://gsa.confex.com/gsa/2017AM/webprogram/Paper298989.html>
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▪ CONFERENCE SESSIONS CONVENED

- 2024 Clarke, A. B., Lackey, J. S., **McLeod, C. L.**, Whittington, A., Widom, E. Petrology and Volcanology of Earth and Other Planets. Geological Society of America Annual Meeting, Anaheim, CA (upcoming), September 22nd-25th.
- 2024 **McLeod, C. L.**, Brown, K., Petersen, V., Shuster, R. Undergraduate and Graduate Geoscience Student Showcase. NC-SC Geological Society of America Annual Sectional Meeting, Springfield, MO, (upcoming), April 21st-23rd.
- 2023 Michelfelder, G., Brownlee, S., Girard, G., Kenderes, E., **McLeod, C. L.** Future Directions in Mineralogy and Petrology: A Session for Undergraduate and Graduate Researchers. NC Geological Society of America Annual Sectional Meeting, Grand Rapids, MI, May 4th-5th.
- 2023 Brown, K., **McLeod, C. L.**, Shuster, R. Undergraduate and Graduate Geoscience Student Showcase. NC Geological Society of America Annual Sectional Meeting, Grand Rapids, MI, May 4th-5th.
- 2022 **McLeod, C. L.**, Gawronska, A., Lytle, M., Schweitzer, A. Melt, Emplace, Mix, Erupt! (MEME) Investigating the Dynamics of Magmatic Systems via Microanalysis. Joint NC-SE Geological Society of America Annual Sectional Meeting, Cincinnati, April 7th-8th.
- 2022 **McLeod, C. L.**, Brown, K., MacDonald, J. Jr., Phillips, P., Ryan, J. Undergraduate and Graduate Geoscience Student Showcase. Joint NC-SE Geological Society of America Annual Sectional Meeting, Cincinnati, April 7th-8th.
- 2018 Brown, K., and **McLeod, C. L.** Magmas Assemble! Petrologic, Geochemical, Chronologic and Geophysical Insights into the Architecture and Timescales of Magmatic Systems. Geological Society of America Annual Meeting, Indianapolis, November 4th-7th.
- 2018 Wolfe, A., and **McLeod, C. L.** Analytical Advances in Non-Traditional Stable Isotope Geochemistry – Innovative Applications to Earth Science Systems. Geological Society of America Annual Meeting, Indianapolis, November 4th-7th.
- 2018 Fortner, S., Petersen, G., **McLeod, C. L.**, and Brown, K. Promoting Scientific CURE-iosity: Course-Based Undergraduate Research Experiences (CURES) in Introductory Courses at 2YCs and 4YCs. Geological Society of America Annual Meeting, Indianapolis, November 4th-7th.
- 2017 **McLeod, C. L.**, and Shaulis, B. J. From Macro to Micro and Back Again: Advances in the Understanding of Terrestrial and Extraterrestrial Magmatic Systems through Microanalysis, American Geophysical Union (AGU) Fall Meeting. New Orleans, LA, December 11th-15th.
- 2017 Peterson, V. L., Morris, A. R., Haacker, R., Asher, P. M., and **McLeod, C. L.** Undergraduate Earth, Atmospheric, Ocean, and Space Science Research and Outreach, American Geophysical Union (AGU) Fall Meeting. New Orleans, LA, December 11th-15th.
- 2014 Rubie, D., and **McLeod, C. L.** Emerging Worlds: How to Make a Planet, 45th Lunar and Planetary Science Conference (LPSC), Houston, TX, March 17th-21st.
- 2010 Kent, A., Bergantz, G., Collins, S. J., and **McLeod, C. L.** Physical, Chemical and Petrographic Constraints on Magmatic Differentiation, American Geophysical Union (AGU) Meeting, San Francisco, CA, December 13th-17th.
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▪ AWARDS AND RECOGNITIONS

- 2023 Miami University College of Arts and Science (CAS) Outstanding Educator Award
- 2023 Miami University MAC Outstanding Faculty Award for Student Success nominee
- 2022 Pearson Excellence in Higher Education Award nominee
- 2022 Miami University Faculty Commendation (*comments submitted by graduating students*)
- 2021 Miami University Faculty Commendation (*comments submitted by graduating students*)
- 2020 Miami University Student Recognition of Teaching Excellence

- 2020 Miami University Faculty Commendation (*comments submitted by graduating students*)
- 2020 Outstanding Professor Award Nominee, Miami University
- 2019 Best Lilly Conference Poster Presentation (*peer-reviewed by conference attendees*)
- 2019 Miami University Faculty Commendation (*comments submitted by graduating students*)
- 2018 Exceptional Reviewer for the GSA peer-reviewed journal *Geology*
- 2018 Miami University Faculty Commendation (*comments submitted by graduating students*)
- 2017 Miami University Faculty Commendation (*comments submitted by graduating students*)
- 2014 Exceptional Reviewer for the GSA peer-reviewed journal *Geosphere*
- 2012 Bob Hunter Prize for Best Student Oral Presentation, Volcanic and Magmatic Studies Group Annual Meeting
- 2011 Durham University Teaching and Learning Award (Higher Education Academy, UK, accreditation)
- 2010 Best Graduate Student Oral Presentation, EurlSPET meeting, Padova, Italy
- 2009 Best Graduate Student Poster, Graduate Student Researchers Poster Competition, Durham University
- 2008 Mineralogical Society of Great Britain and Ireland Student Travel Grant
- 2008 Edinburgh Geological Society Undergraduate Award
- 2008 Senior Undergraduate Geology Medal
- 2007 Senior Undergraduate Field Notebook Award, Cyprus Fieldtrip
- 2007 Junior Undergraduate Geology Medal

▪ **PROFESSIONAL DEVELOPMENT**

- 2023-24 Faculty Learning Community: New Graduate Directors
- 2023-24 Faculty Learning Community: Teaching STEM – Strategies to Support Faculty Development and Enhance Teaching Effectiveness
- 2023 Miami University Howe Writing Center Certificate Program: Supporting Graduate Learning through Writing (Fall 2023)
- 2023 Journal on Excellence in College Teaching (JECT): Mentoring for Success webinar (co-host, May 16th, 43 attendees).
- 2023 AAAS Improving Undergraduate STEM Education: Transform Your Department Culture – Helpful Examples for Inspiring Change (webinar, May 9th)
- 2023 National Association of Diversity Officers in Higher Education (NADOHE): In the Face of Resistance – Advancing Equity in Higher Education (webinar, April 10th)
- 2023 National Academies of Sciences, Engineering, Medicine (NASEM): Advancing Antiracism, Diversity, Equity, and Inclusion in STEMM Organizations (webinar, February 14th)
- 2023 Lunar and Planetary Institute Development for Planetary Scientists: Managing Stress Fatigue (workshop, January 5th)
- 2022-23 Faculty Learning Community: Let's Play - Improved Instruction through Re-Experiencing Learning using Tabletop Games
- 2022 Faculty Learning Community: Inclusive Teaching for Equitable Learning (ITEL) (*includes Association of College and University Educators (ACUE) ITEL microcredential*)
- 2022 Miami University online course (10 modules): Diversity, Equity, and Inclusion
- 2022 Safe Zone 101 Training (offered through Miami University)
- 2022 LGBTQ+ Terminology and Allyship (offered through Miami University)
- 2021-22 Miami University Mentorship Program: Miami RED Women (role: mentee)
- 2021-22 Miami Faculty Learning Community facilitator: [Evaluating the Effectiveness of Course Evaluations for Formative and Summative Instructional Improvement](#)
- 2021 Faculty Learning Community: Diversity, Equity, and Inclusion in Graduate Education
- 2020-21 Faculty Learning Community: Graduate Student Mentorship
- 2020 National Academies of Sciences Engineering Medicine (NASEM) Imagining the Future of Undergraduate STEM Education Symposium, November 12th, 13th, 19th.
- 2020 National Alliance for Partnerships in Equity (NAPE) faculty/staff mentoring workshop: Micromessaging to Reach and Teach Every Student, October 16th.
- 2020 Miami English Language Learner Writing Center workshop: Designing Effective Writing Assignments for International (ELL) Students Enrolled in Courses Across the Disciplines
- 2020 Online course: The Dynamic Earth – a Course for Educators. American Museum of Natural History (*audited*) <https://www.coursera.org/learn/earth-amnh>
- 2020 Online course: Foundations for Excellence on Online Teaching. Arizona State University (*audited*) <https://courses.edx.org/courses/course-v1:ASUx+FETO101x+2T2020/course/>

- Online course: Learning to Teach Online. University of New South Wales, Australia (*audited*)
<https://www.coursera.org/learn/teach-online>
- 2020 NAGT workshop: Learning Objectives and Assessment in Field Experiences, April 11th products integrated: https://nagt.org/nagt/teaching_resources/field/designing_remote_field_experie.html
- 2019 NSF GEOPATHS PI workshop April 25th-26th, Alexandria, VA
- 2019 Center for Teaching Excellence 2-day workshop: Publishing in the Scholarship of Teaching Learning
- 2018 NAGT-NSF Early Career Geoscience Faculty Workshop at University of Maryland (July 22nd-26th)
- 2018-19 Faculty Learning Community: Experiential Learning (Aug. 2018 – May 2019)
- 2017-18 Faculty Learning Community: Global Initiatives Faculty Collaborative (Aug 2017 – May 2018)
- 2017 Faculty Learning Community: Diffusing STEM Innovations (Fall 2017)
 Product: <https://www.miamioh.edu/cte/resources/experiential-learning/>
- 2016-17 Faculty Learning Community: Alumni Teaching Scholars (year-long faculty development program that enhances undergraduate education, June 2016 – May 2017)
- 2016-17 Faculty Learning Community: New Faculty Research Community (Sept 2016 – May 2017)
- 2016 Establishing and Sustaining an Undergraduate Research Program, American Geophysical Union (AGU) Meeting, San Francisco, CA
- 2016 Broadening Participation in the Geosciences, AGU Fall Meeting, New Orleans, LA
- 2016 Online course: Advanced Learning Through Evidence-Based STEM Teaching, Boston University
<https://www.edx.org/course/advancing-learning-through-evidence-based-stem-tea>
- 2015- Original Lilly Conference on College Teaching (attended annually, presented 5 times)
- 2015 Faculty Learning Community: New Faculty Teaching Enhancement Program (Fall, 2015)
- 2012 GSA Thompson Field Forum, Formation of the Sierra Nevada Batholith: Magmatic and Tectonic Processes and Their Tempos, September 1st-8th, Sierra Nevada, CA
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▪ COURSES TAUGHT (n=9)

GLG 111: The Dynamic Earth (Fall 2016, 2018-2023, 3-credit hours)

Introductory-level course taught to majors and non-majors. This course provides an introduction to physical geology. Key topics that are addressed include the formation of Earth, Earth's internal structure, plate tectonic settings, the generation of rocks and their minerals, natural hazards, geological time, landscape evolution, and climate change.

GLG 357: Igneous and Metamorphic Petrology (Spring 2016-2023, 4-credit hours)

This is an integrated classroom, laboratory, and field-based course which introduces students to the petrogenesis of Igneous and Metamorphic rocks from different tectonic settings on Earth. This course integrates scientific communication and writing skills and is purposefully designed so that students develop their analytical, critical thinking, research and writing skills. This course involves a 4-day field trip to SE Missouri and a 6-week Course-based Undergraduate Research Experience both of which I developed.

GLG 411/511: Field Camp (Summer 2017- 2019, 2021-2022; *2017-2019 first 3 weeks only*, 6-credit hours)

The Miami University Field Geology course is run by the course Director Dr. Brian Currie for 5 weeks during the summer throughout June and July with field locations in Idaho, Wyoming, and Montana, and has a base at the Miami University Geology Field Station in Dubois, WY. The aim of this field course is to engage the students in authentic field-based experiences. Throughout this course, students are required to integrate content knowledge with their own observation-based evidence and interpretations, and to communicate that knowledge through writing and the production of geologically accurate field maps.

GLG 427/527: Isotope Geochemistry (Fall 2015, 2018-2020, 2022; Spring 2017, 3-credit hours)

This upper-level undergraduate and graduate-level course focuses on the chemical composition and evolution of Earth and extraterrestrial objects. Students are expected to be able to comprehensively discuss the application of high-temperature isotope geochemistry in the field of Earth and Planetary Sciences. The course requires students to develop scientific literacy through abstract writing, scientific paper writing, oral presentations, and grant writing skills through numerous structured exercises and assignments.

GLG 457/557: Planetary Geology (Fall 2023, 3-credit hours)

Fall 2023 was the first offering of this course. This course discussed how fundamental geological principles can be applied to understanding the evolution of other planets, moons, asteroids, and comets. Past, present, and future exploration of space (including space tourism) was explored alongside the ethics of space travel and future plans for permanent human bases on the Moon

and Mars (and beyond). Past, current, and the future need for international space policies was also discussed in addition to planetary defense programs. Enrolled students completed multiple writing assignments aimed at a range of audiences from the general public to the scientific expert. Students completed 2 oral presentation assignments based on the 3-minute thesis (3MT®).

GSC 601: College Teaching Enhancement Program (Fall 2023, 1-credit hour, 2 sections offered)

This course is available to all graduate students at Miami University and can be taken as part of the College Teaching Certificate, or as a stand-alone course. Each section of the course meets 6 times for 1 hour throughout the semester. This course orients graduate students to practical issues related to college teaching, scholarship and service, and how these faculty roles are affected by institutional context. For Fall 2023, this included academic institutional types and expectations; classroom assessment techniques; writing teaching philosophy statements; course, syllabus, and backwards design; and learner-centered classrooms.

GSC 602: College Teaching (Fall 2023, 1-credit hour)

This course is available to all graduate students at Miami University and can be taken as part of the College Teaching Certificate (GSC 601 as a pre-requisite or co-requisite). Course met 6 times for 2 hours throughout the semester. The course orients graduate students to the theory and research associated with college pedagogy, and a variety of evidence-based teaching approaches. This included best teaching practices; inclusive course design and syllabi; designing learning outcomes and assessments; ethics in higher education; and academic integrity.

GLG 647: Graduate Student Onboarding (Fall 2021-2023, 1-credit hour)

Fall 2021 was the first offering of this course. All new graduate students in the MA, MS, and PhD programs enroll. This course focuses on the informal “hidden curriculum” of graduate school that works to complement formal student learning such that all individuals feel supported and have the necessary skill set with which to lead successful graduate careers. The course was offered once every two weeks with a synchronous option via Zoom offered each time. A total of 7 sessions were held and started during Week 1 of the semester. Topics in this first offering were informed by feedback from our own graduate student cohort in the Spring of 2020, in addition to feedback from departmental faculty, materials available online for a graduate geoscience onboarding course, and discussions during a National Association of Geoscience Teachers webinar. The second offering in Fall 2022 was revised based on feedback and included revisions to all offered sessions including a new session on Science Communication. Community-building activities were integrated into weeks in between sessions and included visits to Miami’s Center for Teaching Excellence and the formal gardens (among others). The third offering in Fall 2023 was revised based on feedback from the Fall 2022 student cohort with more time during class sessions reserved for open discussion and reflection, and two visits to the Miami University Makerspace.

GLG 657: Geology of our Solar System (Fall 2021, 3-credit hours)

Fall 2021 was the first offering of this graduate-level course. This course discussed the geological history of the rocky objects in our Solar System through analysis and evaluation of data and relevant peer-reviewed literature. This included differentiated planets, moons, asteroids, and meteorites (including chondritic and achondritic materials). The geologic processes that have shaped these objects over billions of years (e.g., volcanism, impacts, tectonics, sedimentology) were discussed alongside the observations that are used to interpret their histories (e.g., remote sensing and sample-based science). Discussion of past, present, and upcoming missions was integrated throughout the course, in addition to discussion of space policy and ethics.

- **MIAMI-ISSUED COURSE EVALUATIONS** (Likert scale: 0-4 - Strongly Disagree to Strongly Agree)
full reports are available upon request

Content presented clearly (q1); Instructor Effectiveness (q2); Concern for learning demonstrated (q3)

Course	Semester	n	response	q1 (median)	q2 (median)	q3 (median)
GSC 602	Fall 2023	14	71%	3.7 (4)	3.5 (4)	3.5 (4)
GSC 601	Fall 2023	9	78%	4.0 (4)	4.0 (4)	4.0 (4)
GLG 457/557	Fall 2023	19	95%	3.8 (4)	3.9 (4)	4.0 (4)
GLG 111	Fall 2023	88	43%	3.5 (4)	3.6 (4)	3.4 (4)
GLG 357	Spring 2023	12	100%	3.8 (4)	3.8 (4)	3.9 (4)
GLG 427/527	Fall 2022	19	63%	4.0 (4)	4.0 (4)	4.0 (4)
GLG 111	Fall 2022	79	51%	3.7 (4)	3.8 (4)	3.7 (4)
GLG 357	Spring 2022	17	53%	4.0 (4)	4.0 (4)	4.0 (4)
GLG 657*	Fall 2021	14	14%	4.0 (4)	4.0 (4)	4.0 (4)

GLG 111	Fall 2021	87	62%	3.8 (4)	3.7 (4)	3.8 (4)
GLG 357	Spring 2021	14	86%	3.6 (4)	3.9 (4)	4.0 (4)
GLG 427/527	Fall 2020	15	67%	3.7 (4)	3.8 (4)	3.7 (4)
GLG 111	Fall 2020	86	58%	3.4 (4)	3.5 (4)	3.5 (4)
GLG 357	Spring 2020	12	83%	3.6 (4)	3.9 (4)	4.0 (4)
GLG 427/527	Fall 2019	17	94%	3.8 (4)	3.9 (4)	3.9 (4)
GLG 111	Fall 2019	79	91%	3.7 (4)	3.4 (4)	3.7 (4)
GLG 357	Spring 2019	18	100%	3.9 (4)	3.9 (4)	4.0 (4)
GLG 427/527	Fall 2018	14	92%	4.0 (4)	4.0 (4)	4.0 (4)
GLG 111	Fall 2018	29	85%	3.3 (4)	3.4 (4)	3.5 (4)
GLG 357	Spring 2018	13	100%	3.9 (4)	4.0 (4)	3.9 (4)
GLG 427/527	Spring 2017	8	100%	3.8 (4)	3.8 (4)	4.0 (4)
GLG 357	Spring 2017	7	86%	4.0 (4)	4.0 (4)	4.0 (4)
GLG 111	Fall 2016	83	65%	3.5 (4)	3.7 (4)	3.9 (4)
GLG 357	Spring 2016	16	86%	3.5 (4)	3.6 (4)	3.7 (4)
GLG 427/527	Fall 2015	11	91%	3.8 (4)	3.7 (4)	3.9 (4)

*due to low response rate, a course survey was issued via Google Forms. Results available upon request.

Geology Field-based Capstone Course (5 weeks in Idaho, Wyoming, and Montana)

Scale: 0-4. Instructor enthusiasm (q1) Instructor attitude (q2) Overall effort and performance (q3).

Course	Semester	n	response	q1	q2	q3
Field Camp	Summer 2022	14	100%	3.8	3.9	3.9
Field Camp	Summer 2021	24	100%	4.0	4.0	4.0
Field Camp	Summer 2019	13	100%	3.9	4.0	3.9
Field Camp	Summer 2018	20	100%	4.0	4.0	4.0
Field Camp	Summer 2017	18	100%	3.8	3.8	3.7

▪ PROFESSIONAL MEMBERSHIPS

Association for Women Geoscientists (AWG)
 Association for Women in Science (AWIS)
 Council on Undergraduate Research (CUR)
 Geological Society of America (GSA)
 Ohio Academy of Science (OAS)
 National Association of Geoscience Teachers (NAGT)

▪ SERVICE TO STUDENTS

2024 Faculty Panelist: Women's Voices and Perspectives at Miami – Moving Toward a More Inclusive STEM Field (part of Women's History at Miami University Office of Transformational and Inclusive Excellence)

2023-2023 Faculty advisor to Miami University Chapter of the Association for Women Geoscientists (AWG)

2023 Mentored four undergraduate students through NSF GRFP process: application process, review and feedback on personal statement and research proposal (all four submitted Oct. 20th)

2023 PhD oral comprehensive exam practice sessions (Aug 1st, 11st, 31st, 7 hours total)

2023 Graduate student (re)orientation sessions (3 hours, August 23rd)

2023 Center for Teaching Excellence seminar: Inclusive Teaching for Equitable Learning – Insights for Practice, panelist (April 20th)

2023 Worked with the Office of the Provost, and the Rinella Learning Center, to establish a majors-only section of GLG 115L and a Supplemental Instruction program in GLG 111A (for Fall semester)

2023 Mental Health in the College Classroom, Greater Cincinnati Collegiate Connection (GC3), 3-part webinar series, participant (February 8th, 15th, March 1st)

2022- Faculty co-founder and representative on Miami University Graduate School Student Rights and Responsibilities Committee

2022 "Classroom Connections" – participated in semester-long Mental Health initiative from Miami University Student Counseling Services in upper-level course (Fall 2022, GLG 427/527)

2021- Faculty Mentor: Miami University Graduate School Cross-Cultural Mentoring Program

2018- Faculty Academic Advisor for Phi Mu Fraternity, Beta Eta chapter

2016- Letters of recommendation (>120 written to date) for university, regional, and national student

- scholarships, fellowships, and graduate school applications
- 2015- 8 PhD student dissertation defense committees, 15 PhD student dissertation proposal committees, 18 PhD student comprehensive exam committees, 25 MS student thesis defenses, 22 MS student thesis proposal committees, 1 MA student committee
- 2017 Co-led 1-week field trip to San Salvador, the Bahamas, Miami Undergraduate Geological Society
- 2016 Co-led 1-week field trip to Joshua Tree National Park, Miami Undergraduate Geological Society <https://geologymiamioh.wordpress.com/2016/03/29/spring-break-2016-joshua-tree-national-park/>
- 2015-18 Student abstract peer reviewer, Council on Undergraduate Research, Posters on the Hill, Washington DC
- 2014-18 Student poster and oral presentation judge: Dwornik Student Presentation Award (LPSC, 2018, 2014), Student Presentation Award (IAVCEI, 2017), Outstanding Student Paper Award at American Geophysical Union (AGU) Conference (2014-2017)
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▪ **SERVICE TO THE DEPARTMENT AND MIAMI UNIVERSITY**

- 2024 3 Minute Thesis (3MT) Competition - judge for final round (Feb. 26th)
- 2024 Miami University Scholars Showcase: on-campus interviews with high school students who were being considered for Presidential Fellow Scholarships, class of 2028 (Feb. 18th)
- 2023 Graduate student recruitment booth, Geological Society of America meeting (Oct. 15th-18th)
- 2023 Miami University Discover the Sciences faculty panelist and department tour liaison (Sept. 28th)
- 2023 Miami University Student Technology Fee proposal reviewer and faculty lead (Sep. 30th)
- 2023- Graduate Program Director, Department of Geology and Environmental Earth Science
- 2023- Miami University College Teaching Certificate (CTC) Steering Committee
- 2023 Centre for Teaching Excellence Alumni Teaching Scholar FLC panelist (May 11th)
- 2023 Geoscience Student Research Symposium organizing committee (Spring semester)
- 2023 3 Minute Thesis (3MT) Competition preliminary round judge (Feb. 1st)
- 2023 Miami University Scholars Showcase: on-campus interviews with high school students who were being considered for Presidential Fellow Scholarships, class of 2027 (Feb. 19th).
- 2022-23 Search Committee member: Chair, Department of Geology and Environmental Earth Science
- 2022 Search Committee member: Tenure Track Assistant Professor (Mineralogist)
- 2022- Department Promotion Committee for Teaching, Clinical Professors and Lecturers (TCPLs) faculty
- 2021 Online course: [The Inclusive STEM Teaching Project](#) (audited)
- 2021 Center for Teaching Excellence seminar (co-led with Dr. Maija Sipola) – Addressing DFW Rates in Introductory-Level Courses: Strategies for Fostering Student Success
- 2021- Chair of the Center for Teaching Excellence (CTE) Senate Committee
- 2021 Co-led summer book club: Designing Effective Teaching and Significant Learning
- 2021 Miami University Undergraduate Research Forum Session Moderator (virtual)
- 2021 3 Minute Thesis Competition preliminary round judge (Feb. 9th, 11th)
- 2020- Center for Teaching Excellence, Faculty Teaching Associate (FTA)
- 2020- Diversity, Equity, and Inclusion (DEI) Departmental committee (co-founder, July 2020)
- 2020 Miami University Office of Research for Undergraduates Faculty Panelist: Disciplinary Approaches to Research
- 2020 Miami University Undergraduate Research Forum Session Moderator (virtual)
- 2019- Center for Teaching Excellence, Departmental Liaison
- 2019-21 Chapter officer for Miami University's Chapter of Phi Kappa Phi (*Public Relations*)
- 2018-20 Member of the Center for Teaching Excellence Senate Committee
- 2017- Department Curriculum Committee: Developing Learning Outcomes for Introductory Courses
- 2016- Graduate Admissions Committee, Department of Geology and Environmental Earth Science (re-appointed Spring 2021 – Spring 2023)
- 2019-20 Search Committee: Teaching Assistant Professor
- 2019 Search Committee: Geochemistry Lab Manager
- 2016- Make It Miami: undergraduate recruitment events during Spring semesters (every year except 20')
- 2016-18 Graduate Student Achievement Fund Committee Member
- 2016 Search Committee: Geochemistry Lab Manager
- 2016 Admissions panel: Junior Preview Day
- 2015- Social Media Coordinator for Department of Geology and Environmental Earth Science
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▪ **SERVICE TO THE (GEO)SCIENCE DISCIPLINE**

- 2024 Elected to the Geological Society of America Penrose Conferences and Thompson Field Forum

- Committee (3-yr term)
- 2023-26 Re-appointed to the National Association of Geoscience Teachers (NAGT) Field Camp Scholarship Committee (4-person committee, 3-year appointment, review ~50 applications/year)
- 2022-24 Re-appointed to the Geological Society of America (GSA) Joint Technical Program Committee (JTPC) as a Member-at-Large. Tasked with assisting in finalizing the technical program of the GSA Annual Meeting (second 2-year term began December 1st 2022)
- 2021- Geoscience Division editor for Council on Undergraduate Research (CUR) peer-reviewed journal: [Scholarship and Practice of Undergraduate Research](#) (SPUR)
- 2021- [Unlearning Racism in the GEosciences](#) (URGE Miami pod, active program participant)
- 2021 Co-facilitated CUR workshop: Undergraduate Student Summer Research Programs April 5th
- 2021- Appointed to the National Science Teaching Association (NSTA) Post-Secondary Science Teaching Committee (3-year term began June 1st)
- 2021- Division Editor (Geoscience Division) on the Editorial Board of the journal [Scholarship and Practice of Undergraduate Research](#) (SPUR)
- 2020-23 Appointed to the National Association of Geoscience Teachers (NAGT) Field Camp Scholarship Committee (4-person committee, 3-year appointment, review ~50 applications/year)
- 2020-22 Appointed to the Geological Society of America (GSA) Joint Technical Program Committee (JTPC) as a Member-at-Large. Tasked with assisting in finalizing the technical program of the GSA Annual Meeting (2-year term began December 1st 2020)
- 2020- Ohio Academy of Science (OAS) Publications Committee
- 2020- Ohio Academy of Science (OAS) Annual Meeting Committee
- 2020- Council on Undergraduate Research (CUR) Student Programs Task Force
- 2020 Geological Society of America (GSA) STILL CARES reviewer (GSA COVID-19 Assistance and Relief Effort for Students, reviewed 50 student applications)
- 2020 Geoscience in the Time of COVID-19 Study (3-week Experience Sampling Method/Daily Diary Survey designed to better understand the experience of faculty members during COVID-19), SERC
- 2018-20 Member of the Editorial Board – Geological Society of America journal *Geology*
- 2018- Member of the Board of Trustees, Ohio Academy of Science (Academia at Large)
- 2017 Undergraduate Student Mentor, annual American Geophysical Union meeting, New Orleans, LA.
- 2016- Women in Geology Faculty Mentor - annual Women in Geology workshop at GSA Annual Meeting
- 2016- Elected Councilor for Geoscience Division of the Council on Undergraduate Research, re-elected in 2019
- 2016- Ohio Department of Education, member of Content Advisory Committee for Grade 8 Science
- 2014- Panelist and reviewer for NSF (panelist n = 6, non-panelist n = 3) and NASA (panelist n = 6, non-panelist n = 1)
- 2013- Reviewer for peer-reviewed journals: *Geochimica et Cosmochimica Acta*, *GSA Bulletin*, *Geological Society of London*, *Geology*, *Geoscience Frontiers*, *Geosphere*, *Lithos*, *Lithosphere*, *Journal of Petrology*, *Journal on Excellence in College Teaching*.
- 2018 Onto the Future Mentor, GSA Annual Meeting, Indianapolis
- 2018 Graduate Student Recruitment at the annual Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) conference, San Antonio, TX (11th-13th Oct.)
- 2017-19 Conference abstract peer review, Ohio Academy of Science Annual Meeting
- 2017-19 Ohio Department of Education, member of review committee for revision of K-8 Science Content Standards

▪ SCIENCE OUTREACH

- 2023 Careers in Quantitative Skills (CIQS) Day: The Geosciences – It's not just Rock n' Roll (Oct. 13th)
- 2022 Organizer - Midwest Mineralogy and Petrology networking event at Joint NC-SE Geological Society of America Annual Sectional Meeting, Cincinnati, April 8th.
- 2021 Participating scientist in the Earth Science Women's Network 2021 Science-A-Thon. Documenting a day in the life of a scientist through social media (Twitter). Full participant list available here: <https://www.scienceathon.org/science-a-thon-2021>
- 2021 Ohio State Science Day Judge
- 2021 Ohio District Science Day Judge
- 2020 Outreach collaboration with Biology/Environmental Science High School teacher Angela McMurry at Arcanum High School, OH. Two virtual events: "Geoscience is for Everyone" as part of Earth Science Week 2020 (Oct. 15th) and "Doing Research" (Nov. 9th)
- 2020 Participating scientist in the Earth Science Women's Network 2020 Science-A-Thon

- https://www.scienceathon.org/scientists?pgid=k8izuh3u-claire_0
- 2020- Contributing writer to the American Geophysical Unions (AGU) science communication portal Geobites (5 articles posted in 2020 <https://geobites.org/author/cmcleod/>)
 - 2018-20 6th grade “*What does a Geologist do?*” workshops at Piqua Central Intermediate School, OH (one/semester)
 - 2018 Smith Elementary School Career Day, Spring Independent School District, (SISD), Houston, TX
 - 2016-17 Discover STEM Conference, Butler County Education Service Center. Day-long STEM-focused workshops for middle school students at Miami University, Middletown Campus
 - 2016 Careers in Quantitative Skills (CIQS) small group leader during day-long event discussing career paths in STEM to female high school students
 - 2014-15 Houston Independent School District (HISD) 5th-6th grade Rock and Minerals workshops (co-led with PhD student from University of Houston), Houston, TX (2-3/semester)