

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

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Through a student-centered approach to education at Miami, I endeavor to support equitable access to learning for all students through teaching, research, service, and mentoring. Through the application of evidence-based approaches I strive to develop inclusive environments for all learners where a sense of belonging is generated, and within which students are prepared for career success, professional advancement, and personal growth.

Appointments

Associate Professor, Miami University	2021-present
Naus Family Faculty Scholar, Miami University	2021-present
Assistant Professor, Miami University	2015-2021

Professional Preparation

The University of Edinburgh	BSc 2004-2008 (with honors, 1 st class)
Durham University	Ph.D. 2008-2012
The University of Houston	Postdoc 2012-2015

Funding in support of teaching, professional development, and student training (\$346,569)

2021	Miami University 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, Miami Career Collaborative supported a 2-day field trip to the Department of Mineral Sciences, Smithsonian National Museum of Natural History (\$3000)
2018	CTE Minor Teaching Grant - Early Career Geoscience Faculty Workshop, Univ. of Maryland (\$300)
2018-	NSF GEOPATHs #1801424, \$333,703, Principal Investigator (PI). Advancing Undergraduate Geoscience through Integrated Training Experiences. <i>Current award ends July 2023.</i>
2018	Council on Undergraduate Research: Education Division Award for Research (\$250)
2017	CTE Minor Teaching Grant - Summer Institute on Scientific Teaching, Univ. of Minnesota (\$177)
2017	CAS Equipment Fund: Acquisition of a Field Rock Drill in Support of Teaching (\$3150)
2016	CTE Major Teaching Grant - 3D geological globe for teaching introductory labs (\$3000)
2015	CTE Minor Teaching Grant - 20099 StarNavigator 102-Millimeter Refractor Telescope (\$300)

Select peer-reviewed publications (*graduate student, †undergraduate student)

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. <i>Environmental Earth Sciences</i> , 82:109. https://doi.org/10.1007/s12665-023-10761-1 .
2022	McLeod, C. L. , Benson, S. Mentoring for success: Best Practices to Support our Students and Colleagues. <i>Journal on Excellence in College Teaching</i> , v. 33(4). Available online here .
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. <i>Nature</i> , 611; 501-506. https://doi.org/10.1038/s41586-022-05265-0 .
2022	*Gawronska, A. J., McLeod, C. L. , Hanna, R., Blumenfeld, E., Zeigler, R., (2022). New interpretations of lunar mare basalt flow morphology and emplacement from XCT analysis of Apollo samples. <i>Icarus</i> , 288. https://doi.org/10.1016/j.icarus.2022.115216 .
2021	*Flett, L., McLeod, C. L. , McCarty, J. L., Shaulis, B. J., Fain, J. J., Krekeler, M. P. S., (2021). Monitoring Uranium Mine Pollution on Native American lands: Insights from Tree Bark Particulate Matter on the Spokane Reservation, WA. <i>Environmental Research</i> , 194. https://doi.org/10.1016/j.envres.2020.110619 .
2020	*Velázquez Santana, L. C., McLeod C. L. , *Blakemore, D., Shaulis, B., Hill, T., (2020). Bolivian Hornblende Cumulates: Insights into the Depths of Central Andean Arc Magmatic Systems. <i>Lithos</i> , 370-371. https://doi.org/10.1016/j.lithos.2020.105618 .
2020	†Oglesbee, T., McLeod, C. L. , *Chappell, C., Vest, J., Sturmer, D., Krekeler, M. P. S., (2020) A Mineralogical and Geochemical Investigation of Modern Aeolian Sands near Tonopah, Nevada: Sources and Environmental Implications. <i>Catena</i> , 194. https://doi.org/10.1016/j.catena.2020.104640 .
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. <i>Environmental Earth Sciences</i> , 79. https://doi.org/10.1007/s12665-020-8890-z .

Conference contributions within the context of education (*graduate student, †undergraduate student)

➤ Abstracts/presentations

- 2023 (*upcoming*) Sipola, M., *Ventura-Valentín, 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. Geological Society of America North Central Meeting, Grand Rapids, MI.
- 2023 (*upcoming*) **McLeod, C. L.**, Sipola, M., Krekeler, M. P. S., Brudzinski, M. Supporting Student Success in Graduate School Through a First Semester Onboarding Course. Geological Society of America (GSA) North Central Meeting, Grand Rapids, MI.
- 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 Original Lilly Conference on College Teaching, Miami University, OH.
- 2022 **McLeod, C. L.**, Curl, A., Sellers, S. The Use of Course Evaluations for Formative and Summative Instructional Improvement. 41st Original Lilly Conference on College Teaching, Miami University, OH.
- 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. GSA Annual Meeting, Denver, CO.
- 2022 †Rutherford, M., **McLeod, C. L.** Global Education Outreach for Diversifying the Earth Sciences (GEODES). GSA North-Central/Southeastern Meeting, Cincinnati, OH.
- 2019 **McLeod, C. L.** Game on! Enhancing Student Learning and Engagement Through Game Based Learning in STEM. 39th Original Lilly Conference on College Teaching, Miami University, OH.
- 2019 **McLeod, C. L.**, and Stern, R. J. Game On! Enhancing Student Learning and Engagement in Petrology through Game Based Learning (GBL). GSA Annual Meeting, Phoenix, AZ.
- 2018 **McLeod, C. L.** Promoting Scientific CURE-iosity: Integrating a Course-based Undergraduate Research Experience (CURE) into an Upper-Level Geology Course. 38th Original Lilly Conference on College Teaching, Miami University, OH.

➤ Sessions convened

- 2022 **McLeod, C. L.**, Brown, K., MacDonald, J. Jr., Phillips, P., Ryan, J. Undergraduate & Graduate Geoscience Student Showcase. Geological Society of America Joint North-Central/Southeastern Meeting, Cincinnati, OH.
- 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, IN.

Select student placements (faculty role: primary advisor and/or mentor, recommendation writer)

- Dr. Liannie C. Velázquez Santana (PhD, Aug. 2022): Provost's Early Career Postdoctoral Fellow at the Jackson School of Geosciences, Univ. of Texas at Austin
- Ruthy Rutherford (BS, 2022): Environmental Specialist at the Ohio Environmental Protection Agency (EPA) Recipient of a 2022 Miami University President's Distinguished Service Award
- Kevin Woeste (BS, 2022): Staff member at the Indiana Geological & Water Survey
- Jared Brum (MS, 2022; BS, 2020): Project Manager - Layne Christensen, Water Technologies Division, OH
- Jessica Patrick (BS, 2021): MS student in the Dept. of Geosciences, Auburn Univ, AL
- Luke McCreary (BS, 2021); MS student in the Dept. of Geology & Geophysics, Purdue Univ, IN
- Raghad Al Gbory (BS, 2021): Wellsite Geologist, Columbine Corporation, TX
- Jenn Davis (BS, 2020): PhD student, Dept. Geological Sciences, Univ. of Colorado Boulder
- Claudia Dawson (BS, 2020): MS Baylor Univ. (2022); TriAD Environmental Consultants, TN
- Andrew Bollinger (BS, 2020): PhD student, Dept. Earth and Environmental Sciences, Michigan State Univ
- Daniel Blakemore (MS, 2020): PhD student, Dept. Earth and Environmental Sciences at Univ. of Michigan
- Haley Thoresen (BS, 2019) PhD student, Dept. Earth and Spatial Sciences, Univ. of Idaho
- Maureen Haley (MS, 2019): Industrial CT Technician, ATL Science, OH
- Richard Brydon (MS 2018): Project Geologist, Tetra Tech, VA
- Ciara Childers (BS, 2018): Project Geologist, Jett Environmental Consulting, OH
- David Beka Binyam (BS, 2018): GIS Technician, Duke Energy, OH

Select student awards & grants (*graduate student, †undergraduate student)

- 2022 Future Investigators in NASA Earth and Space Science Fellowship to *Aleksandra Gawronska
- 2022 American Geophysical Union Lawrence A. Taylor Research Fund to *Aleksandra Gawronska (\$4000)
- 2022 Miami University Provost Student Academic Achievement Award (PSAAA) to †Kinshuk Tella (\$1000)
- 2021 GSA Expanding Representation in Geosciences Scholarship to †Ruthy Rutherford (\$1500)

- 2021 Provost's Student Academic Achievement Award (PSAAA) to †Lauren Doepke (\$1000)
 2021 Goldwater Scholarship to †Ethan Klein (co-mentored with Dr. Krekeler)
 2021 NASA Space Grant College Fellowship: Ohio Space Grant Consortium to *Jared Brum
 2020 CAS Dean's Scholar to †Jordan Vest (\$500)
 2020 CAS Dean's Scholar to †Jessica Patrick (\$500)
 2020 Provost's Student Academic Achievement Award (PSAAA) to †Jessica Patrick (\$1000)
 2020 National Association of Geoscience Teachers Outstanding TA Award to *Daniel Blakemore
 2020 M.I.A.M.I WOMEN Giving Circle †Jordan Vest, †Claudia Dawson, †Lauren Doepke (\$7200)
 2019 ExxonMobil/Geological Society of America Student Geoscience Research Grant awarded to *Liannie Velázquez-Santana (\$5000)
 2018 CAS Deans Scholar Award awarded to †Elizabeth Angi-O'Brien (\$750)
 2018 Provost's Student Academic Achievement Award (PSAAA) to †Elizabeth Angi-O'Brien (\$1000).

Select professional development

- 2022 Guest editor for Journal on Excellence in College Teaching (JECT): Mentoring for Success: Best Practices to Support Our Students and Colleagues
 2021-22 Miami FLC facilitator: Evaluating the Effectiveness of Course Evaluations for Formative and Summative Instructional Improvement
 2022 Miami University online course (10 modules): Diversity, Equity, and Inclusion, completed April 2022
 2022 Safe Zone 101 Training (offered through Miami University)
 2021 Miami FLC: Diversity, Equity, and Inclusion in Graduate Education (offered by the Graduate School)
 2020-21 Miami FLC: Graduate Student Mentoring (offered by the Graduate School)
 2020 National Academies of Sciences Engineering Medicine (NASEM) Imagining the Future of Undergraduate STEM Education Symposium, November 12th, 13th, 19th
 2018 NAGT-NSF Early Career Geoscience Faculty Workshop at University of Maryland
 2015- Miami University Faculty Learning Communities (FLCs): Let's Play – Improved Instruction through Re-Experiencing Learning using Tabletop games (22-23'); Inclusive Teaching for Equitable Learning (22) Experiential Learning (18-19'); Global Initiatives Faculty Collaborative (17-18'); Diffusing STEM Innovations (17'); Alumni Teaching Scholars (16-17'); New Faculty Research Community (16-17'); New Faculty Teaching Enhancement Program (15')

Recognitions

- 2023 Miami University MAC Outstanding Faculty Award for Student Success nominee
 2022 Pearson Excellence in Higher Education Award nominee
 2020 Miami University Provost's Student Recognition of Teaching Excellence
 2020 Miami University Outstanding Professor Award nominee
 2019 Best Original Lilly Conference Poster Presentation (*peer-reviewed by conference attendees*)

Select service to Miami and our students

- 2022 Participated in Miami University's Student Counseling Service's Classroom Connections program
 2021- Chair of the Center for Teaching Excellence (CTE) Senate Committee
 2021- Faculty Mentor in the Graduate School Mentoring Program (one current mentee)
 2021 Co-facilitated CTE summer book club: Designing Effective Teaching and Significant Learning
 2021 Graduate School Faculty Learning Community (FLC): Diversity, Equity, and Inclusion (participant)
 2020- CTE Departmental Liaison and Faculty Teaching Associate
 2017 Co-led field trip to San Salvador, Miami Undergraduate Geological Society
 2016 Co-led field trip to Joshua Tree National Park, Miami Undergraduate Geological Society
 2015- 4 PhD defense committees, 9 PhD proposal committees, 10 PhD comprehensive exam committees, 13 MS thesis defenses, 20 MS student proposal committees

Select service to the profession

- 2022- Association for Women Geoscientists (AWG) Miami Chapter Faculty Advisor
 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 (Miami pod, program participant)
 2020- National Association of Geoscience Teachers, Field Camp Student Scholarship Committee
 2018- Member of the Board of Trustees, Ohio Academy of Science (position: Academia at Large)
 2016- Geoscience Division Councilor, Council on Undergraduate Research
 2016- Ohio Department of Education (ODE), member of Content Advisory Committee for Grade 8 Science
 2016-19 Women in Geology Faculty Mentor: annual Women in Geology workshop at GSA Meeting
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