

Katherine Johnson Lewandowski
Eastern Illinois University, [REDACTED]
E-mail: [REDACTED]

Areas of Specialization:

Cenozoic climate change and paleoceanography, benthic foraminiferal micropaleontology, paleoecology, evolution, and stratigraphy. Geoscience education and the history of geology. Program assessment and evaluation.

Professional Experience:

Professor	Eastern Illinois University	2020-present
Associate Professor	Eastern Illinois University	2015-2020
Assistant Professor	Eastern Illinois University	2009-2015

Marsden Fund Postdoctoral Fellow Geomarine Research, Auckland, New Zealand 2008-2009

Graduate Teaching Assistant	Ohio State University	2002-2006
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Graduate Research Assistant	Ohio State University	2001
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High School Science Teacher	Oak Knoll School, Summit, N.J.	1997-2000
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Middle School Science Teacher	Advent Day School, Birmingham, AL	1995-1997
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Education:

Ph.D., 2008, Ohio State University, Columbus, OH

- School of Earth Sciences, Geology Division
- Deep-water foraminifera of the Kerguelen Plateau: responses to climate in the late Neogene
- Advisor: P.N. Webb
- Committee: W.I. Ausich, A.E. Carey, and M.R. Saltzman

M.S., 2003, Ohio State University, Columbus, OH

- Department of Geological Sciences
- Thesis: Depositional Architecture and Processes of the Fort Payne Formation, South-Central Kentucky
- Advisor: L.A. Krissek
- Committee: W.I. Ausich and A.E. Carey

M. Ed., 1995, Vanderbilt University, Nashville, TN

- Peabody College of Education, Secondary Science Education Program,
- Teacher Certification in Secondary Life Sciences

B.S., 1994, Vanderbilt University, Nashville, TN

- College of Arts and Sciences
- Major in Biology, minor in Music History.

Collaborative Grants and Fellowships Awarded:

2017 Collaborator, with Julie Dietz, Jeanne Okrasinki, Nikki Hillier, and Brian Reid, secondary science education component on the project: Supporting Healthy School Communities

- Partnership Grant of the Faculty Development Advisory Committee, EIU
- Status: funded (\$800)

2010 Collaborator, Bridging the gap between the great Ordovician biodiversification event and the Devonian terrestrial revolution

- proposed collaboration with PI from Kansas Geological Survey (Bradley D. Cramer)
- status: funded

Awards:

2022 **Student Impact Grants for Faculty Mentors, Eastern Illinois University**

- \$1500 for research supplies for working on the Pleistocene Tasmanian benthic foram project and travel expenses to go to NC GSA with John Marron, Colin Houser, and Lydia Howard.

2021 **College of Liberal Arts and Science Travel Grants, Eastern Illinois University**

- \$500 for travel to present 2 talks and chair a session at the Joint NC/SE Section Meeting of the Geological Society of America Meeting in April 2022 in Cincinnati, OH

2019 **College of Liberal Arts and Sciences Travel Grants, Eastern Illinois University**

- \$500 for travel to present “Breaking the Ice Ceiling: the Struggles of Maria Klenova,” at the 50 Years of Women in Antarctica Meeting.
- \$500 for travel to present “Cataloguing Representation: Publication of Books About Women in Science over the Last Decade (2009-2019),” at Geological Society of America Meeting.

2019 **Interdisciplinary Center for Global Diversity Travel Grant, Eastern Illinois University**

- \$250 for travel to present “Turning the Tide: Participation of Women in Oceanography” at Geological Society of America Meeting.

2018 **Student Impact Grants for Faculty Mentors, Eastern Illinois University**

- \$1500 for STEAM Team collaboration with Martinsville Elementary School to buy supplies for an afterschool program.

2018 **College of Liberal Arts and Sciences Faculty Research Travel Fund, Eastern Illinois University**

- \$500 for travel to Geological Society of America national meeting in Indianapolis, IN, November 2018

2014 **Achievement and Contribution Award- Balanced Category, Eastern Illinois University**

2013 **McKay-Hammer Award** for Hayward, B., Kawagata, S., Sabaa, A., Grenfell, H., van Kerckhoven, L., **Johnson, K.**, and Thomas, E., 2012. The last global extinction (mid-Pleistocene) of deep-sea benthic foraminifera and the taxonomy and late Cretaceous-Cenozoic record of the extinction group (Chrysalogoniidae, Glandulonodosariidae, Stilostomellidae, Plectofrondiculariidae, Ellipsoidinidae, Pleurostomellidae, some Nodosariidae), Cushman Foundation Special Publication Monograph.

- The McKay Hammer is awarded to the author or authors of the most meritorious contribution to geology in New Zealand published in the previous 3 calendar years.

2013 **Eastern Illinois Visiting Scholars Award**

- \$600 to be used for EIU Chapter of NSTA (National Science Teachers Association) events

2013 **Travel Grant** to IGCP 591 Meeting in Lund, Sweden

- \$430 toward travel expenses to the meeting

2011 **COS Early Research Support Grant Award** for “Marine Sediments from the Pleistocene Coast of Tasmania.”

- \$500 to be applied to securing access to an online database used to help verify taxonomic identification of fossils.

2011 **Eastern Illinois Visiting Scholars Award**

- \$600 to be applied to Sigma Xi Distinguished Lecturer (Tad Pfeffer) Travel

2010 **Paleontological Society Education and Outreach Award**

- \$2500 awarded to run a 3-day paleontological workshop for inservice teachers summer 2011

2009 **Eastern Illinois Visiting Scholars Award**

- \$500 to bring Golden Apple Teacher (Louise Huffman) in as guest speaker for Science Methods class

Publications:

In Print:

Lewandowski, K., 2018, Pioneers in Antarctic research: Lois Jones and her all-woman science team explore the geochemistry of the Dry Valleys, *in* Johnson, B.A., ed., *Women and Geology: Who Are We, Where Have We Come From, and Where Are We Going?* Geological Society of America Memoir 214, p.51-57, [https://doi.org/10.1130/2018.1214\(05\)](https://doi.org/10.1130/2018.1214(05)).

Lewandowski, K., 2018, Taboos, stowaways, and chief scientists: A brief history of women in oceanography, *in* Johnson, B.A., ed., *Women and Geology: Who Are We, Where Have We Come From, and Where Are We Going?* Geological Society of America Memoir 214, p.23-35, [https://doi.org/10.1130/2018.1214\(03\)](https://doi.org/10.1130/2018.1214(03)).

Cramer, B.D., **Lewandowski, K.J.**, Goldstein, A., Asher, P., Ryan, J., Schofield, D.I., Buchanan, R., Denne, R., Ausich, W.I., Vandenbroucke, T.R.A., Lundy, S., Priest, R.T., Clark, R.J., 2015, Who Will Build the 21st Century? Addressing Critical Demographic Gaps in the Geosciences, *GSA Today*, v. 25, no. 12, doi: 10.1130/GSATG243GW.1.

Lewandowski, K.J., 2014, Communicating the science of IGCP 591 to the public, *GFF*, DOI: [10.1080/11035897.2014.898330](https://doi.org/10.1080/11035897.2014.898330)

Hayward, B., Kawagata, S., Sabaa, A., Grenfell, H., van Kerckhoven, L., **Johnson, K.**, and Thomas, E., 2012. The last global extinction (mid-Pleistocene) of deep-sea benthic foraminifera and the taxonomy and late Cretaceous-Cenozoic record of the extinction group (Chrysalogoniidae, Glandulonodosariidae, Stilostomellidae, Plectofrondiculariidae, Ellipsoidinidae, Pleurostomellidae, some Nodosariidae), Cushman Foundation Special Publication Monograph.

Johnson, K., Hayward, B.W., and Holbourn, A., 2011, Middle Miocene (13-15 Ma) record of elongate, cylindrical, deep-sea foraminifera in the subtropical Pacific Ocean, *Marine Micropaleontology*, v. 78: 50-64.

Hayward, B.W., **Johnson, K.**, Sabaa, A.T., Kawagata, S., and Thomas, E., 2010, Cenozoic record of elongate, cylindrical, deep-sea benthic foraminifera in the North Atlantic and Equatorial Pacific Oceans, *Marine Micropaleontology*, v. 74: 75-95.

Hayward, B.W., Sabaa, A.T., Thomas, E., Kawagata, S., Nomura, R., Schröder-Adams, C., Gupta, A.K., and **Johnson, K.**, 2010, Cenozoic record of elongate, cylindrical, deep-sea benthic foraminifera in the Indian Ocean (ODP Sites 722, 738, 744, 758, and 763), *Journal of Foraminiferal Research*, v. 40: 113-133.

Acton, G., Crampton, J., Di Vincenzo, G., Fielding, C., Florindo, F., Hannah, M., Harwood, D., Ishman, S., **Johnson, K.**, Jovane, L., Levy, R., Lum, B., Marcano, M., Mukasa, S., Ohneiser, C., Olney, M., Riesselman, C., Sagnotti, L., Stefano, C., Strada, E., Taviani, M., Tuzzi, E., Verosub, K.L., Wilson, G., Zattin, M., and the ANDRILL SMS Science Team, 2008-2009, Preliminary integrated chronostratigraphy of the AND-2A core, ANDRILL Southern McMurdo Sound Project, Antarctica, *Terra Antarctica*, v. 15: 211-220.

Taviani, M., Hannah, M., Ishman, S., **Johnson, K.**, Olney, M., Riesselman, C., Tuzzi, E., Askin, R., Beu, A., Blair, S., Cantarell, V., Ceregato, A., Corrado, S., Mohr, B., Nielsen, S., Persico, D., Petrushak, S., Raine, I., and Warney, S., 2008-2009, Paleontological characterization of the AND-2A core, ANDRILL Southern McMurdo Sound Project, Antarctica, *Terra Antarctica*, v. 15: 113-146.

Johnson, K. and Tellinghuisen, J.B., 1994. The D \rightarrow X transition in $^{136}\text{Xe}^{19}\text{F}$. *Chemical Physics Letters* 228: 363-368.

Thesis and Dissertation:

Johnson, K., 2008, Deep-water foraminifera of the Kerguelen Plateau: responses to climate in the late Neogene, Ph.D. dissertation, Ohio State University, 355 pp.

Johnson, K., 2003, Depositional architecture and processes of the Fort Payne Formation, South-Central Kentucky. M.S. thesis, Ohio State University, 162 pp.

Abstracts:

Asterisk (*) indicates mentored student

*Howard, L., *Houser, C., *Marron, J., and Lewandowski, K., 2023, Community Structure and Population Dynamics of Pleistocene Benthic Foraminifera from ODP Site 1171C (South Tasman Rise), Geological Society of America *Abstracts with Programs*, Vol. 55, No. 3
doi: 10.1130/abs/2023NC-386884.

*Evans, M., *Hughes-Phelan, S., *Marron, J. and **Lewandowski, K.**, 2023, Low-Resolution Study of Pleistocene Benthic Foraminifera from Cool-Water Carbonates around Tasmania (ODP Site 1168)., Geological Society of America *Abstracts with Programs*, Vol. 55, No. 3 doi: 10.1130/abs/2023NC-386728.

Lewandowski, K., 2023, An Initial Look at the Composition of Geoscience Departments by Rank and Gender, Geological Society of America *Abstracts with Programs*, Vol. 55, No. 3 doi: 10.1130/abs/2023NC-386647.

Lipps, J. and **Lewandowski, K.**, 2022, Helen Tappan: Success in Paleontology Through Dedication, Organizational Skills, and Hard Work, Geological Society of America *Abstracts with Programs*, Vol. 54, No. 4, doi: 10.1130/abs/2022NC-374604.

Lewandowski, K., 2022, Maria Klenova: Pioneering Polar Marine Geologist, Geological Society of America *Abstracts with Programs*, Vol. 54, No. 4, doi: 10.1130/abs/2022NC-374605.

*Evans, M., *Hughes-Phelan, S., and **Lewandowski, K.**, 2022, Low-Resolution Study of Pleistocene Benthic Foraminifera from Cool-Water Carbonates around Tasmania (ODP Site 1168)., National Council on Undergraduate Research Annual Meeting, Online, April 2022.

Lewandowski, K.J., 2019, Breaking the Ice Ceiling: the Struggles of Maria Klenova. 50 Years of Women in Antarctica Symposium, Byrd Polar Research and Climate Center, The Ohio State University, Columbus, OH, October 2019.

Lewandowski, K.J., 2019, Cataloguing Representation: Publication of books about women in science over the last decade (2009-2019), Geological Society of America Abstracts with Programs. Vol. 51, No. 5, ISSN 0016-7592 doi: 10.1130/abs/2019AM-335688.

Lewandowski, K.J., 2018, Turning the Tide: Trends in Participation of Women in Oceanography, Geological Society of America Abstracts with Programs. Vol. 50, No. 6, ISSN 0016-7592, doi: 10.1130/abs/2018AM-320690

Lewandowski, K.J., 2016, “Girl Talk”: Marie Tharp and her famous map, *North-Central Section Meeting, GSA Abstracts with Programs*, v. 48, no. 5, doi: 10.1130/abs/2016NC-275087.

Lewandowski, K.J., 2016, An Ohio State Legacy: Women Researchers in Antarctica, *North-Central Section Meeting, GSA Abstracts with Programs*, v. 48, no. 5, doi: 10.1130/abs/2016NC-275088

*Harvey-Costello, N., **Lewandowski, K.J.**, Day, J.E., Chesner, C.A., 2015, Under the Scope: Investigating the Idlewild Member of the Lithograph City Formation, Devonian (Frasnian), Iowa Basin, *North-Central Section Meeting, GSA Abstracts with Program*, v. 47, no. 5, p. 82.

*Hughes, S.J, and **Lewandowski, K.J.**, 2015, Low resolution examination of cool-water carbonate foraminifera around Tasmania (ODP Site 1168) during the Pleistocene, *North-Central Section Meeting, GSA Abstracts with Program*, v. 47, no. 5, p. 78.

*Bobal, B.J., **Lewandowski, K.J.**, Lasemi, Z., Mikulic, D., Mumm, R., 2014: A comparison of coral zones from within the Lingle (St. Laurent) Formation from the Illinois Basin, *North-Central Section Meeting, GSA Abstracts with Program*, v. 46, no. 4, p. 10.

Lewandowski, K.J., *Jaques, C.A., O’Malley, C.E., Hollis, K., McCarren, H.K., and Judge, S.A., 2014: Trial and Error: Developing Curriculum for Public Outreach, North American Paleontological Conference Abstract Volume, Gainesville, FL, February 2014.

Lewandowski, K.J., Judge, S.A., *Hughes, S.J., Zunk, B., *Guerrettaz, B.D., *Kooken, K.A., 2013: Pleistocene Cool-Water Carbonates: Forams and Bryozoans from West Tasmania Slope Sediments (ODP Leg 189, Site 1168), Geological Society of America, Abstracts with Program, v. 45, no. 7, p. 332.

Lewandowski, K.J., 2013, A strategy for education and outreach for IGCP 591, *In: Lindskog, A & Mehlqvist, K.*, eds., Proceedings of the 3rd IGCP 591 Annual Meeting – Lund, Sweden, 9-19 June 2013. Lund University. 368 pp.

Lewandowski, K.J., O'Malley, C.E., *Jaques, C.A., 2013: Fostering Global Citizenship in the Secondary Classroom, *North-Central Section Meeting, GSA Abstracts with Program*, v.45, no. 4, p. 20.

Johnson, K., Hollis, K., Judge, S., McCarren, H., O'Malley, C., 2012: Lessons from developing a workshop for secondary science teachers, *North-Central Section Meeting GSA Abstracts with Program*, v.44, no.6, p. 60.

Johnson, K., Thoele, L., Judge, S. 2010: Can you dig it?: K-12 inquiry activities focusing on paleoenvironments, *North-Central/South-Central Section Meeting GSA Abstracts with Program*, v. 42, no. 2, p. 56.

Sabaa, A. T.; Hayward, B. W.; Thomas, E.; Kawagata, S.; Nomura, R.; Schroder-Adams, C.; Gupta, A. K.; **Johnson, K.** 2009: Causes of evolution and extinction of deep-sea benthic foraminifera in the Indian Ocean. *Geological Society of New Zealand Miscellaneous Publication (184) Abstract*, Geosciences NZ Meeting 09, Oamaru, New Zealand.

Johnson, K., Hayward, B.W., Holbourn, A., 2009, The record of elongate, cylindrical, deep-sea foraminifera in the middle Miocene (15-13 Ma) subtropical Pacific Ocean, *GSA Abstracts with Program*, v. 41, no. 7, p.561.

Ishman, S., **Johnson, K.**, Sprovieri, M., Lirer, F., 2008, A preliminary foraminiferal record from drillcore AND-2A, Southern McMurdo Sound, Antarctica, *Fall AGU meeting*, San Francisco, CA

Johnson, K. and Webb, P., 2008, Pliocene glacial-deglacial cycles deciphered from Southern Kerguelen Plateau benthic foraminiferal assemblages, *Fall AGU meeting*, San Francisco, CA.

Johnson, K. and Webb, P., 2008, Kerguelen Plateau benthic foraminifera as a proxy for Late Neogene paleoclimate, *Geosciences NZ 08 meeting*, Wellington, New Zealand.

Johnson, K., 2007, Kerguelen Plateau benthic foraminifera as a proxy for Late Neogene water mass history and Antarctic glacial-deglacial cycles – Online Proceeding of the 10th ISAES X, edited by A.K. Cooper and C. R. Raymond et al., *USGS Open-File Report 2007-1047*, Extended Abstract 029, 4pp.

Zunk, B., **Johnson, K.**, and Judge, S.A., 2006, Pleistocene grain-size analysis and micropaleontology of West Tasmania Slope sediments (ODP Leg 189, Site 1168), *NC GSA Abstracts*, v. 38, no.4, p.27.

Johnson, K., Judge, S.A., Ausich, W.I., 2004, Three dimensional orientations of crinoid pluricolumnals verify depositional processes, *GSA Abstracts*, v. 36, no. 5, p. 63.

Johnson, K., Krissek, L.A., Ausich, W.I., 2003, Seafloor topography and depositional complexity of the Fort Payne Formation, South-Central Kentucky. *GSA Abstracts*, v. 34, no. 7, p. 336.

Millan, C., Judge, S., **Johnson, K.**, Gudding, J., Tayse-Ballieul, R., and McKenzie, G., 2003. Earth science basics for K-5 educators. *School Science and Mathematics Association Annual Convention Abstracts with Programs*.

Johnson, K., Krissek, L.A., Ausich, W.I., 2002. Depositional architecture and processes of the Fort Payne Formation, South-Central Kentucky. *GSA Abstracts*, v. 34, no. 6, p. 137.

Mapes, R. H., Cooksey, R. E. and Gardner, G., **Johnson, K.**, 2001. Soft tissue preservation in coiled nautiloids from the Bear Gulch Lagerstätte (Mississippian-Chesterian) of Montana. *GSA Abstracts*, v. 33, no. 6, p. 12.

Invited Talks

“Turning the Tide: Women in Geology.” **Live to Learn Speaker Series. Douglas-Hart Nature Center**, Mattoon, IL. November 2024.

Illinois Environmental Protection Dive In Event, Presentation on Earth Resources to 200 6th graders from Mattoon Middle School (Douglas-Hart Nature Center, Fall 2023)

Boy Scouts of America, EIU Summer Clinic, Oceanography Badge (EIU, Summer 2023)

“A History of Science in Antarctica.” **Live to Learn Speaker Series. Douglas-Hart Nature Center**, Mattoon, IL. December 2021.

Natural Resources: Impacts on Society. Garrett High School, IN. (Mr. Anthony Thomas’ high school class. December 2021)

Cub Scout Merit Badge Presentation. (Geology Workshop to help Cub Scouts earn the Geology Merit Badge, December 2021).

“My Story...being a woman in Geology” HON 4013-851-History of Women in Science and Technology, **Tennessee Tech University**, Cookeville, TN (Invited Speaker for a class, via Zoom, March 2021).

“Imposter Syndrome, “ **2019 Women in Geology Career Pathways Reception** at National Geological Society of America Meeting (September 2019, Phoenix, AZ)

“Fossil Trackways,” **Charleston Public Library, Children’s Program**, June 12, 2019.

“Turning the Tide: Trends in Participation of Women in Oceanography,” **Interdisciplinary Center for Global Diversity Symposium**, Eastern Illinois University, February 26, 2019.

“Did dinosaurs live in Illinois?” **Charleston Public Library, Adult Program**, January 24, 2019.

Professional Development Day for Martinsville Schools Science Teacher, Grades 6-12, focused on strategies for using STEAM projects to motivate students. January 18, 2019.

“Looking Toward the Future: Math and Science Curricula in the 1960s,” **Panel Discussion, Revolutionary Decade: Reflections on the 1960s, Booth Library**, Eastern Illinois University, October 16, 2014.

“Neogene Deep-Sea Benthic Foraminifera: Tales from the Pacific,” **Department of Earth and Environmental Sciences Colloquium, University of Iowa**, Iowa City, Iowa, September 19, 2014.

“The Changing Landscape of Earth Science Education: Common Core, NGSS, and how that will impact the next generation of students,” **Who Will Build the 21st Century? Addressing Critical Demographic Gaps in the Geosciences and Our Ability to Research, Assess, and Utilize Our Natural Resources**, University of Iowa, Iowa City, June 2014.

“Trial and Error: Developing Curriculum for Public Outreach,” **North American Paleontological Conference**, Gainesville, FL, February 2014.

“Mid-Pleistocene fossil material from off the coast of Tasmania,” **EIU Geology-Geography Colloquium and Earth Science Week Lecture**, October 2013.

“Plate Tectonics: A Major Paradigm Shift,” **EIU Technology and Science Symposium: Revolutions in Science and Technology Paradigms**, Oct-Nov 2013.

“A strategy for education and outreach for IGCP 591,” **3rd Annual IGCP 591 Meeting**, Lund University, Lund, Sweden, June 2013.

“How do plankton build their houses?” Presenter at Sycamore School District, Cincinnati, OH, **Sycamore STEAM Council**, May 16, 2013.

“The Uninhabited Continent: using Antarctica to integrate social sciences and natural sciences,” **Presenter at the 32nd Annual History Teachers Conference at Eastern Illinois University**, October 13, 2011.

“The record of elongate, cylindrical, deep-sea foraminifera in the middle Miocene (15-13 Ma) subtropical Pacific Ocean,” **Illinois State University Lunch Speaker Series**, 12-1 pm, May 5, 2011.

“Events of March 11, 2011: Sendai Earthquake and Tsunami,” Presentation of Earth Science of the events; participant in roundtable discussion, **Eastern Illinois University Roundtable Discussion on Japan Disaster**, sponsored by Asian Studies Program, 12-1:30 April 1, 2011.

Consultant:

2021- 2024 External Evaluator for IUSE Grant at University of Iowa

2019- External Reviewer for Program Review at University of North Iowa

2017-2021 Hired as outside consultant to evaluate first year progress on University of Iowa National Science Foundation (NSF) grant project GP-IMPACT: Leveraging Adoption of the Next Generation Science Standards (NGSS) and Improving Geoscience Education in the State of Iowa

Courses Taught at Eastern Illinois University:

GEO 3470 Geology Seminar: Marine Geology
GEO 4850 Environmental Geology
GEO 3085 Vertebrate Depositional Systems and Paleoenvironments
GEO 3115 Introduction to Paleoclimate
GEO 2200 History of Earth
GEO 1430 Historical Geology (retired class)
GEO 2450G Oceanography
GEL 4490 Invertebrate Paleontology
BIO/PHS 3400 Methods of Teaching Secondary Science
GEO 1300G Introduction to Earth Sciences

Workshops Attended:

2021 Project WET Workshop, NC GSA Meeting, Virtual Meeting, April 2021. As a result, I am certified to teach the Project WET Curriculum.
2018 Paleontological Society Short Course on Active Learning Strategies, GSA meeting, Indianapolis, IN, November 2018
2018 Rural School Forum, EIU, June 2018
2014 Who Will Build the 21st Century? Addressing Critical Demographic Gaps in the Geosciences and Our Ability to Research, Assess, and Utilize Our Natural Resources, University of Iowa, Iowa City, June 2014.
2013 International Ocean Drilling Program (IODP) School of Rock, Victoria, British Columbia, Canada, April 2013
2011 National Science Foundation TRANSITIONS workshop, Arlington, VA, October 2011.
2010 Assessment Institute, IUPUI, Indianapolis, IN
2010 SENCER (Science Education for Civic Engagements and Responsibilities) Workshop, Indiana State University, Terre Haute, IN
2009 Building Core Knowledge, Teaching Paleoclimate using Inquiry Activities. GSA Workshop, Portland, OR, October 2009
2009 NOAA Kickoff Meeting, ANDRILL Education and Outreach, University of Nebraska, Lincoln, NE, September 2009.

Workshops Developed

April 2014 Exploring Earth Science Materials Workshop for Secondary Teachers, NAGT Sponsored Workshop at North Central GSA Meeting in Lincoln, NE

- One day workshop being developed for the National Association of Geoscience Teachers (Central Section) for teachers to learn about earth science activities (ended up being cancelled due to under enrollment)

June 2011 Paleontology Workshop for Science Teachers

- Three-day workshop developed with funds from the Paleontological Society to expose secondary science teachers to paleontological concepts and field work.

Eastern Illinois University Service:

2022-2023	EPP/CAEP Steering Committee
2013-2015	IBHE Common Core Grant Committee to Develop Implementation Framework
2010-2017	University Advisory Committee on Teacher Education Member
2012-2013	Past President EIU Chapter of Sigma Xi
2009-2016	University Unit Assessment Committee for Educator Preparation Programs (NCATE/CAEP)

2011-2012	President EIU Chapter of Sigma Xi
2010-2011	Vice-President EIU Chapter of Sigma Xi
2009-10, 15-16	National Science Teachers Association (NSTA) National Recognition for the Science Education Program Committee

Eastern Illinois University College Service:

2021-2024	iSTEM Committee Member, CLAS
2021-2022	Culturally Responsive Teaching and Learning Committee, COE
2021-2022	COTE Dispositions Rubric Committee, COE
2017-present	EIU CLAS representative, IBHE, Illinois Articulation Initiative (IAI), General Education Physical Science Curriculum Committee
2017-present	Committee member, Farm to School Network
2020-2022	MAT (Masters and Teaching) program creation Advisory Committee
2020-2022	Accelerated Post-Bac Advisory Committee
2019-2022	EIU, College of Liberal Arts & Sciences, Curriculum Committee
2018-2022	Alternative Teacher Certification Committee
2017-2018	COS representative, Achievement and Contribution Award Selection Committee
2015-2017	Committee member, Rural School Collaborative
2014-2015	Chairperson, COS Commencement Speaker Committee
2014-2015	Voting member, COS Commencement Speaker Committee
2011-2013	Chairman of College of Science M3S Organization
2018-2024	Grow Your Own Grant Advisory Council Member for Rural School Network
2009-2016	College of Sciences WiSm (Woman in Science and Math) Advisory Committee Member
F09, F12, F13	Geology-Geography Department Faculty Representative to Commencement
2009-2015	College of Sciences M3S (Minority Mentoring in Math and Science) Advisory Committee Member

Eastern Illinois University Departmental Service:

2024-2025	IBHE Geology-Geography Review Committee, Chair for Geology
2021-22, 24-25	DPC Chairman, Geology-Geography
2017-present	Geology Chair, Departmental Awards Committee
2017-present	Geology-Geography Departmental Personnel Committee
2018-2022	Geology Chair, Strategic Planning and Review Committee (1/2018)
2017-2020	Department Budget Allocation Committee
2017-2021	Geology-Geography Special Events Committee
2013-2017	Departmental Strategic Planning and Review Committee Member
2013-2015	Geology in the Schools Coordinator, Education and Outreach Program
2013	Department Application of Criteria Committee Member
2010-2018, 2023-	Geology Chair, Geology-Geography Departmental Assessment Committee
2010-2012	Geology-Geography Departmental Library Coordinator
2010-2011	Program Director for Geology in the Schools Outreach Program while Dr. K. Bower was on sabbatical
2009-present	Geology-Geography Departmental Curriculum Committee
2009-present	Department Advising to all Earth Science Teacher Certification Major and some Geology Majors

Other EIU Service:

2012-2015 Faculty Adviser for EIU Chapter of National Science Teachers Association

Research with Students:

Fall 2024- **Max Bruggman** (Pleistocene Forams from ODP Site 1171 and Statistics)
Fall 2023 **Lydia Howard** (Pleistocene Forams from ODP Site 1171)
Spring 2023 **John Marron, Colin Houser, Lydia Howard** (Pleistocene Forams from ODP Site 1171)
Fall 2022 **John Marron, Colin Houser, Lydia Howard** (Pleistocene Forams from ODP Site 1171)
Spring 2022 **John Marron** (Mazon Creek concretions)
Fall 2021-2022 **Madalin Evans** (Pleistocene Benthic Foraminifera from ODP Site 1168)
Spring 2021 **Emily Bosworth** (lead sampling and internship with Coles County Soil and Water)
Spring 2019 **Katrina Osick** (physics and biology teacher certification student), STEAM Team curriculum development for Martinsville Elementary School after-school program
Spring 2018 **John Grubaugh**, Cenozoic Diatoms, Kerguelen Plateau
Spring 2016 **Ryan Kermicle**, Cenozoic Diatoms, site 747A, Central Kerguelen Plateau
Fall 2014-2015 **Daniel White** Orientation of fossils at the Falls of the Ohio, Clarksville, IN
Fall 2014-2015 **Jeremy Wells** Paleocurrents at the Falls of the Ohio, Clarksville, IN
Fall 2013-2015 **Nydra Harvey-Costello** Under the Scope: Lithograph City and Green River Formations
Spring 2013-2014 **Brandon Bobal**, All Washed Up: An Investigation of coral zones within the Lingle Formation of the Illinois Basin through use of sediment cores at the Illinois Geological Survey
Spring 2013 **Charlie Jaques** (biology science teacher certification), Creation of Curriculum focusing on the biology and earth science of Madagascar
Summer 2012-Summer 2014 **Sara Hughes** (MSNS student), Cool-water carbonate foraminifera around Tasmania during the Pleistocene
Fall 2011, Fall 2012 **Brandy Guerrettaz**, Marine Sediments from the Pleistocene Coast of Tasmania (ODP Site 1168)
Fall 2010 **Kara Kookan**, Characterization of Microfossil Fauna from the Pleistocene Coast of Tasmania (ODP Site 1168)
Spring 2010 **Lynsey Thoele** (biology science teacher certification): development of middle school inquiry activities

Professional Community Service (Local and State):

2024- Letters to a Prescientist Mentor. Letter writing program where secondary science students are matched to a mentor and write 4 rounds of letters to each other throughout the year.

2024 Reviewer for grant proposal to Indiana Water Resources Research Center
2021-24 External Evaluation of GP-GO: Iowa Environmental Internship Pathways Program, NSF funded. PI Brad Cramer, University of Iowa.
Interviewed students, involved faculty, PIs and wrote a report submitted to Dr. Brad Cramer assessing the program each summer.

- 2020 ILTS Earth and Space Science Committee, Content Test Development Conference, February 19&20, 2020, Chicago, IL
Pearson/Evaluation Systems organized conference for standard setting and linking study for Earth and Space Science Content Test for Teacher Licensure Candidates.
- 2019 External Evaluator for External Academic Program Review for the Earth and Environmental Program in the College of Humanities, Arts, and Sciences, University of Northern Iowa, Cedar Falls, Iowa, Site visit: April 1&2, 2019.
- 2019 Chair of Illinois Teacher Licensure Testing System Earth and Space Science Item Review Conference, February 28-March 1, 2019
Pearson/Evaluation Systems organized conference to review items (questions) for the Earth and Space Science Content Test for Teacher Licensure Candidates
Chairperson's responsibilities include making sure the final document reflects all changes approved by the committee.
- 2018-21 External Reviewer for NSF GP-IMPACT grant Leveraging Adoption of the NGSS and Improving Geoscience Education in the State of Iowa, P.I Brad Cramer, University of Iowa.
- 2018/9 Consultant for Family Fun Night (Fall2019) at Oakland Elementary School, Theme: Dinosaurs. Began working with teachers at Oakland Elementary School in May 2018
- 2018/9 Chair of the Volunteer Program STEAM Team at Martinsville Elementary School
Began collaborating with Principal Norton in May 2018 through May 2019.
EIU Science Education students ran a 10 week enrichment program for 3rd- 6th graders at MES after school once a week each semester.
- 2018 Chair of Illinois Teacher Licensure Testing System Earth and Space Science Framework Review Conference August 14 2018
Pearson/Evaluation Systems organized conference to review and update the Framework for the Earth and Space Science Content Test for Teacher Licensure Candidates
Chairperson's responsibilities include making sure the final document reflects all changes approved by the committee

Professional Society Service:

- Spring 2021 Biggs Award for Excellence in Earth Science Teaching Selection Committee Member, Geological Society of America
- 2017-present Advisory Board Member, Ann Johnson Institute for Science, Technology and Society at the University of South Carolina
- Fall 2017 Reviewer for **Journal of Foraminiferal Research**, Cushman Foundation
- 2017 Evaluator of edTPA student teaching portfolios for Pearson
- 2014 Reviewer of oceanography activities for On the Cutting Edge, an NAGT Professional Development Program for Geoscience Faculty
- 2014-2015 Reviewer for the Journal of Earth System Science (Indian Academy of Science)
- 2013-2016 National Association of Geoscience Teachers (NAGT) Central Section Secretary
- 2013-2014 National Association of Geoscience Teachers (NAGT) Central Section Outstanding Earth Science Teacher Award Chair
- 2013-2015 Climate and Energy Activity Network (CLEAN) reviewer

2013,2015 North Central GSA student presentation/poster judge
2013-2016 Reviewer for **Eastern Education Journal** (EIU Ed Journal)
2013-2016 Reviewer for **Palaeogeography, Palaeoclimatology, Palaeoecology**
2012-2015 EIU Faculty Fellow (Taylor Hall)
2012-2013 National Association of Geoscience Teachers (NAGT) Central Section President
2011-2012 National Association of Geoscience Teachers (NAGT) Central Section 1st Vice
President
2011-2012 Reviewer for the **Czech Bulletin of Geosciences**
2009 National GSA Meeting Paleontological Society graduate student poster judge

Professional Society Memberships:

Geological Society of America
SEPM
The Paleontological Society
The Cushman Foundation for Foraminiferal Research
National Association of Geoscience Teachers
National Science Teachers Association
Illinois Science Teachers Association

Honor Society Memberships:

Sigma Xi
Phi Kappa Phi