

# Gary J. Motz

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## EDUCATION

- Doctor of Philosophy** (Geology)                      The University of Cincinnati                      (ABD)  
Dissertation Title: Morphologic variation and taxonomic diversity in a highly escalated system: Neogene predator/prey interactions of the Indo-Pacific
- Master of Science** (Geology)                      The University of Akron                      2010  
Thesis Title: Mollusc Diversity in the Marine and Continental Realms:  
A Case Study of the Estuary Effect
- Bachelor of Science** (Biology & Geology)                      The University of Dayton                      2008  
Graduated *magna cum laude* with Honors designated degree  
Thesis Title: A Revised Graptolite Biostratigraphy of the Phi Kappa Formation in the Trail Creek Region of Central Idaho

## RELATED WORK EXPERIENCE

- Manager of Collections IT Support, UITS Client Services and Support                      2022-present  
Office of the Vice President for IT and CIO, Indiana University
- Head of Information Technology, University Collections                      2021-present  
Office of the Vice President for Research, Indiana University
- Chief Information Officer and Assistant Director for Information Services                      2017-2021  
Indiana Geological and Water Survey
- Research Affiliate, Center for Biological Research Collections, Indiana University                      2017-present  
Paleontology Collections Manager,                      2015-2018  
Department of Earth and Atmospheric Sciences, Indiana University
- Museum Informatics and Digital Resources Project Coordinator,                      2014-2018  
Center for Biological Research Collections, Indiana University
- Paleontology Research Assistant, NASA Program in Exobiology                      2011-2012  
Paleontology Research Assistant, University of Dayton Research Institute                      2005-2008  
Paleontology Lab Technician, Cincinnati Museum of Natural History & Science                      2002-2005  
Electron-optics Technician, Wright-Patterson AFB, UES Inc.                      2006  
Exhibit Interpreter, Cincinnati Museum of Natural History & Science                      1998-2005

## FIELD EXPERIENCE/ADDITIONAL EDUCATION

- iDigBio workshop on integrating collections with WikiData                      2022  
USGS workshop on integrating collections with National Digital Catalog                      2020  
iDigBio workshop on integration of specialized repositories                      2020  
Project Management, Ecological Society of America                      2019  
Biodiversity Informatics 101, iDigBio & SPNHC                      2017  
iDigBio workshop on georeferencing for research, NCEAS & CCBER                      2016  
Paleontological Society Short Course: Virtual Paleontology (instructor)                      2016

Paleontological Society Short Course: Earth-Life Transitions	2015
Certified Outdoor Educator, Project WILD-Indiana	2015
iDigBio workshop on digitization of vertebrate specimens, Cornell University	2015
iDigBio workshop on accessibility of digital media in biological research	2015
iDigBio workshop on digitization of vertebrate specimens	2015
Biogeochemical characterization of tropical lacustrine sediments and karst, Belize	2014
Paleoecological characterization of Neogene molluscan communities, Japan	2013
Field trip organized, Paleontology and stratigraphy of the Tethyan province of the Himalayas in Ladakh (Jammu and Kashmir), northern India.	2011
Field trip organized, Geology of the Eastern Mid-Continent, MN, WI, IL.	2011
Paleoecological assessment of anthropogenic modification of benthic molluscan communities in seagrass beds around St. Croix, USVI.	2011
Paleontological Society Short Course: Quantitative Methods in Paleobiology	2010
Intensive Summer Course In Analytical Paleobiology. The National Center for Ecological Analysis and Synthesis, Santa Barbara, CA.	2009
Geology of the Front Range of the Rocky Mountains, CO.	2010
Bio-remediation of microbial mineralization from acid mine drainage, SE Ohio.	2009
Mesozoic Geology of the Colorado Plateau, CO, UT, AZ, NV.	2009
Speleological assessment and karst hydrology of Scott Hollow Cave, WV.	2008
Assessment and analysis of coastal erosion and management practices, NE Ohio.	2008
Field paleontologist, Guadalupe Mountains National Park. GeoCorps America, TX.	2008
Field speleologist, Guadalupe Mountains National Park. GeoCorps America, TX.	2008
Field ecology of forest and grassland habitats, SW Ohio.	2007
Mother's Day Site field paleontologist, Cincinnati Museum of Natural History and Science, MT.	2002-2005, 2007
Marine biology of the Atlantic and Caribbean, GA, FL.	2007
Tracking measles susceptibility and awareness protocols in a rural African community, Ministry of Scientific Research and Innovation. Republic of Cameroon.	2007
Graptolite and conodont integrated biostratigraphy of Trail Creek, ID.	2005
Field mapping and surveying of the Colorado Plateau, CO.	2005
Rainforest ecology and riparian macro-invertebrate biodiversity, Costa Rica.	2005

## **TEACHING EXPERIENCE**

(\* denotes GJM was primary instructor)

Department of Geology	<b>The University of Cincinnati</b>	2010-2012
Physical Geology, Physical Geology for Engineers and Architects, Geomorphology and Surface Hazards, Introductory Geology Laboratory*, Geology for Engineers, Geology of the Eastern Mid-Continent*, Historical Geology, and The Earth in Upheaval		
Department of Geology	<b>The University of Akron</b>	2008-2010
Earth Science, Physical Geology*, Historical Geology*, and Paleobiology*		
Department of Geology	<b>The University of Dayton</b>	2005-2008
Physical Geology, Historical Geology, Geology for Teachers, and Structural Geology		

## PUBLICATIONS AND PRESENTATIONS

- Motz, G.J.** 2023. Unifying and elevating collections management across Indiana University for enhanced accessibility and discoverability. Society for the Preservation of Natural History Collections, May 2023.
- Ruhaak, A., Bloom, G., Raymond, A., Tavernier, W., Siddarth, D., **Motz., G.J.**, and Dulong de Rosnay, M. 2021. A practical framework for applying Ostrom's principles to data commons governance. Mozilla Foundation Blog. <https://foundation.mozilla.org/en/blog/a-practical-framework-for-applying-ostroms-principles-to-data-commons-governance/>
- Motz, G.J.** 2021. Beyond Boundaries symposium.
- Motz, G.J.**, Lanman, J., and Knauth W.W. 2021. Indiana's CARST landscape: more than just sinkholes in the integrated management of collections objects and digital assets. Indiana University Digital Library Brown Bag Series, April 07, 2021. <http://hdl.handle.net/2022/26352>
- Adams, A., Avila, K., Basney, J., Cragin, M., Dopheide, J., Fleury, T., Hudson, F., Kim, J., MacMullen, J.W., **Motz, G.J.**, Peisert, S., Rynge, Mats, Sakai, S., Thompson, S., Vahi, K., Whitcup, W., and Zage, J. 2020. Scientific Data Security Concerns and Practices: A survey of the community by the Trustworthy Data Working Group. <https://doi.org/10.5281/zenodo.3906865>
- Sturgeon, P.R., Mowery, N.B., and **Motz, G.J.** 2019. Resurrecting Megajeff: Uncovering the Hidden History of IU's Lost *Megalonyx jeffersonii*: Indiana Geological and Water Survey Digital Information Series 22, available at <https://igws.indiana.edu/megajeff>.
- Sturgeon, P.R., Mowery, N., and **Motz, G.J.** 2019. Exhibit but make it digital: curating authentic experiences with digital objects using ESRI StoryMaps. *Geological Society of America Abstracts with Programs*. <https://dx.doi.org/10.1130/abs/2019AM-337253>
- Seltmann, K., Lafia, S., Paul, D., James, S., Bloom, D., Rios, N., Ellis, S., Farrell, U., Utrup, J., Yost, M., Davis, E., Emery, R., **Motz, G.J.**, Kimmig, J., Shirey, V., Sandall, E., Park, D., Tyrell, C., Collins, M., Thackurdeen, S., O'Leary, V., Prestridge, H., Evelyn, C., Larson, P., and Nyburg, B., 2018. Georeferencing for Research Use (GRU): An innovative geospatial training paradigm for biocollections researchers and data providers. Research Ideas and Outcomes. <https://dx.doi.org/10.3897/rio.4.e32449>
- Motz, G.J.**, K.J. Cook, A.N. Zimmerman, and P.R. Sturgeon. 2018. Building a case for institutional repositories: digitization as an augmentation of the impact of natural history collections at home and abroad. *Geological Society of America Abstracts with Programs*. <https://dx.doi.org/10.1130/abs/2018AM-325094>
- Cook, K.J., Sturgeon, P.R., and **Motz, G.J.** 2018. Using 3-D prints in a fossil identification exercise to promote understanding of paleontological collections. 2018 *Geological Society of America Abstract with Programs*. <https://dx.doi.org/10.1130/abs/2018AM-323585>
- Sturgeon, P.R., Cook, K.J., and **Motz, G.J.** 2018. Incorporating geologic collections in the classroom. *Geological Society of America Abstracts with Programs* <https://dx.doi.org/10.1130/abs/2018AM-316212>
- Motz, G.J.**, Zimmerman, A.N., Cook, K.J., and Bancroft, A.M. 2018. Collections Management and High-Throughput Digitization using Distributed Cyberinfrastructure Resources. *Biodiversity Information Science and Standards* 2: e25643. <https://doi.org/10.3897/biss.2.25643>

- Zermoglio, P., Paul, D.L., Krimmel, E., **Motz, G.J.**, and Wieczorek, J. 2017. The Evolution of Darwin Core Hour. <https://www.idigbio.org/content/evolution-darwin-core-hour>.
- Junge, J. and **Motz, G.J.** 2017. Fossil CalendAR (v 2.0) [mobile application software]. Retrieved from URL: <https://apps.apple.com/us/app/fossil-calendar/id1258045182?ls=1>
- Junge, J. and **Motz, G.J.** 2017. Fossil CalendAR (v 2.0) [mobile application software]. Retrieved from URL: <https://play.google.com/store/apps/details?id=edu.indiana.igws.calendar&hl=en>
- Paul, D.L., Zermoglio, P., Wieczorek, J., **Motz, G.J.**, and Krimmel, E. 2017. Standards in Action: The Darwin Core Hour. *Proceedings of the Taxonomic Databases Working Group*. Ottawa, Canada. <https://doi.org/10.3897/tdwgproceedings.1.20280>
- Motz, G.J.**, Ng, W.N., Cook, K.J., Laherty, J., Polly, P.D., Johnson, C.C., and Njau, J.K. 2017. Starting from Scratch: Digitization of an Entire Collection Ecosystem. *Society for the Preservation of Natural History Collections*. Denver, Colorado.
- Laherty, J. and **Motz, G.J.** 2017. Responding to the Invisible Infrastructure: Research Libraries as Preservation Partners in the Curation of Physical Specimen Biocollections Data. *Society for the Preservation of Natural History Collections*. Denver, Colorado.
- Laherty, J. and **Motz, G.J.** 2017. Imago: Building a Biocollections Repository for Digital Preservation and Scientific Reproducibility. *Inaugural Digital Data in Biodiversity Research Conference*. Ann Arbor, Michigan.
- Hasenmueller, N.R., Hasenmueller, W.A., **Motz, G.J.**, and Daniels, M.I.S. 2017. The Indiana Geologic Names Information System – A Stratigraphic Database. *Indiana Academy of Science*. Indianapolis, Indiana.
- Motz, G.J.**, Johnson, C.C., Njau, J.K., Polly, P.D., and Zimmerman, A.N. 2017. Digital access(ion) of the Indiana University Paleontology Collection: leveraging resources from geoinformatics, distributed cyberinfrastructure, citizen science, and augmented reality. *Geological Society of America Abstracts with Programs*. <https://dx.doi.org/10.1130/abs/2017AM-307735>
- Park Boush, L.E., **Motz, G.J.**, Astrop, T., and Hren, M.T. 2017. Lake faunas through time – the estuary effect and how life invaded land. *Geological Society of America Abstracts with Programs*. <https://dx.doi.org/10.1130/abs/2017AM-302979>
- Polly, P.D. and **Motz, G.J.** 2017. Patterns and processes in morphospace: geometric morphometrics of three-dimensional objects. In: L. Tapanila and I. Rahman (eds.), *Virtual Paleontology*. Paleontology Society Special Publication, Vol. 22, 71-99. Cambridge University Press, Cambridge, UK. <https://doi.org/10.1017/scs.2017.9>
- Laherty, J. **G.J. Motz**, and E.B. Knox. 2016. Partnering to create repository infrastructure for biodiversity big data. *Association for Information Science and Technology*.
- Laherty, J. and **Motz, G.J.** 2016. Boundless use of Indiana University's biological research collections possible in partnership with IU Libraries. *The International Federation of Library Associations and Institutions*.
- Motz, G.J.**, Johnson, C.C, Njau, J.K., Polly, P.D., Laherty, J., and Hasenmueller, N.R. 2016. Broad citizen-science engagement, enhanced preservation of metadata, and public accessibility of Indiana's Fossil Record using an integrated digital repository and collection management system using a distributed framework connected by Darwin Core. *Geological Society of America Abstracts with Programs* 48 (7): . <http://dx.doi.org/10.1130/abs/2016AM-283586>

- Hasenmueller, N.R., Hasenmueller, W.A., **Motz, G.J.**, and Daniels, M.I.S. 2016. Linking the Indiana Geologic Names Information System to Complementary Geological Databases. *Geological Society of America Abstracts with Programs* 48 (7).  
<http://dx.doi.org/10.1130/abs/2016AM-277940>
- Burt, A.A., Badillo, A.E., Kitchell, L., and **Motz, G.J.** 2016. Identifying canid tooth modification: a side-by-side comparison of 3D imaging techniques. *Advances in Archaeological Practice* (81):21. <http://core.tdar.org/document/403593/identifying-canid-tooth-modification-a-side-by-side-comparison-of-3d-imaging-techniques>
- Motz, G.J.** Taxonomic differentiation of preferred prey items in the Indo-Pacific persistent hotspot of biodiversity. 2015. *Geological Society of America Abstracts with Programs* 47 (7): 348.
- Luque, J., Agic, H., Anderson, E.P., Dahl, R., Donovan, M., Field, D.J., Fronimos, J.A., Hodges, M., **Motz, G.J.**, Roney, R., Saupe, E.E., Sheffield, S., Tackett, L., Tashman, J.N., and Wawrzyniak, Z. 2015. Diversity in all its forms: IPC4 as an invaluable opportunity for STEPPE grant recipients. *GSA Today*, 5 (1), 24. <http://hdl.handle.net/10088/26534>
- Luque, J., Agic, H., Anderson, E.P., Dahl, R., Donovan, M., Field, D.J., Fronimos, J.A., Hodges, M., **Motz, G.J.**, Roney, R., Saupe, E.E., Sheffield, S., Tackett, L., Tashman, J.N., and Wawrzyniak, Z. 2014. SEPM and STEPPE: Diversity in all its forms: IPC4 as an invaluable opportunity for STEPPE grant recipients. *Sedimentary Record*, 12 (4), 13-Appendix A.
- Motz, G.J.** 2014. Escalated morphologic variation and diversity: Cenozoic predator/prey interactions of the Indo-Pacific. *Malacological Society of Australasia Newsletter* 151: 9.
- Park Boush, L.E., and **Motz, G.J.** 2014. STEPPE—Earth Life Transitions: the “estuary effect” and the origin of lake faunas: the synergy between global tectonics, climate change, and biodiversity through time. In: *Tenth North American Paleontological Convention Abstracts*, Paleontological Society Special Publication 13: 129.
- Thomka, J.R., and **Motz, G.J.** 2014. First report of Silurian crinoid columnals with tetralobate and hexalobate lumen structures. *GFF* 136: 266-269.  
<http://dx.doi.org/10.1080/11035897.2013.854271>
- Motz, G.J.** 2013. Geometric morphometric analyses of shell shape contributions to prey selectivity: predation in the naticid gastropod and venerid bivalve system of biotic interactions. *Geological Society of America Abstracts with Programs* 45 (7): 839.
- Motz, G.J.** 2013. Patterns of disparity and diversity: induced morphologic variation of venerid bivalves (Bivalvia: Veneridae) of the Indo-Pacific. *Açoreana: Revista de Estudos Açoreanos* Suplemento 8: 117.
- Motz, G.J.** 2012. Morphologic variation as a potential driver of taxonomic richness: venerid bivalves of the Indo-Pacific. *The Malacologist*, 56: 7.
- Thomka, J.R. and **Motz, G.J.** 2013. First report of a Silurian crinoid (Echinodermata) holdfast with a tetralobate lumen: Massie Formation, southeastern Indiana. *Abstracts of the Indiana Academy of Science Annual Meeting*, 128: 13.
- Motz, G.J.** 2012. Morphologic variation as a driver of taxonomic richness: venerid bivalves of the Indo-Pacific. *Geological Society of America Abstracts with Programs* 44 (7): 625.

- Motz, G.J.**, and Kolbe, S.E. 2012. Morphometric analysis: assessing error in digitization and automated collection of large quantities of data. *Geological Society of America Abstracts with Programs* 44 (5): 67.
- Motz, G.J.**, Wise, J.L. 2011, *Geology of the Eastern Mid-Continent*, Cincinnati, OH, University of Cincinnati Press, 14pp.
- Motz, G.J.**, Park, L.E., Horvath, K.M. 2009. The estuary effect: environmental and physiological controls on molluscan diversification. *Geological Society of America Abstracts with Programs* 41 (7): 560.
- Park, L.E., **Motz, G.J.**, Horvath, K.M. 2009. Clades on continents: crossing the salinity divide and its effect on Earth's biodiversity. In: *Ninth North American Paleontological Convention Abstracts*. Cincinnati Museum Center Scientific Contributions #3, 194.
- Motz, G.J.**, Park, L.E., Horvath, K.M., 2009. Gastropod diversity in the marine and continental realms: a recipe for increased resistance to extinction? In: *Ninth North American Paleontological Convention Abstracts*. Cincinnati Museum Center Scientific Contributions #3, 195.
- Motz, G.J.**, Park, L.E. 2009. Crossing the salinity divide: what happens when clades invade continents. *University of Akron Conference on Undergraduate and Graduate Student Research*.
- Goldman, D., Mitchell, C.E., Maletz, J., Riva, J.F.V., Leslie, S.A., and **Motz, G.J.** 2007. Ordovician graptolites and conodonts of the Phi Kappa Formation in the Trail Creek region of central Idaho: a revised, integrated biostratigraphy. In: *Proceedings of the 10<sup>th</sup> International Symposium on the Ordovician System*, Nanjing, China, June 2007, J. Li, F. Junxuan, and I. Percival (eds) *Acta Palaeontologica Sinica* 46: 155-162.
- Maletz, J., Goldman, D., Leslie, S.A., Mitchell, C.E., **Motz, G.J.** 2006. The Phi Kappa Formation in the Trail Creek region (central Idaho): integrated biostratigraphy of Ordovician to lower Silurian graptolite and conodont faunas. *Geological Society of America Abstracts with Programs* 38(7): 551.
- Motz, G.J.**, Goldman, D., Leslie, S.A. 2006. An integrated biostratigraphic approach to refining the lower Paleozoic time scale of central Idaho. *The Ohio Journal of Science* 106(1): 19.
- Motz, G.J.**, Goldman, D., Leslie, S.A., Maletz, J., Mitchell, C.E. 2006. Ordovician graptolites and conodonts from the Phi Kappa Formation in the Trail Creek region of central Idaho: an integrated biostratigraphy. *Geological Society of America Abstracts with Programs* 38(4): 69.

### INVITED PRESENTATIONS

iDigBio: Combining Project Mgmt. Digitization Efforts to Benefit Collections, Wash. D.C.	2023
NASEM: Envisioning a Biological Collections Action Center, Los Angeles, CA	2023
iDigBio: Integrating Specialized Repositories Workshop, Durham, NC	2020
USGS NGDPP Integrating Collections in the NDC, Boulder, CO	2020
United States Geological Survey Data Preservation Workshop	2019
Environmental Resilience Institute Data Summit	2019
Society of American Archivists, Bloomington, IN	2018
Indiana GIS Day, Indianapolis, IN	2018
Monroe County Historic Preservation Board	2018



USGS Community for Data Integration	2018
Community Standards for 3D Data Preservation	2018
Federation of Earth Science Information Partners	2018
Z764 Documentation, Dept. of Information & Library Science, Indiana University	2017, 2018
Document Academy	2017
G411 Invertebrate Paleontology, Department of Earth & Atmospheric Sciences	2017
Smithsonian Institution Paleobiology Staff Development Workshop (instructor)	2017
Biodiversity Informatics 101 Short Course, SPNHC	2017
500 Earth Sciences Club & Indiana Society of Paleontology Spring Field Trip	2017, 2018
Digital Library Brown Bag Series, Indiana University Libraries	2016, 2017, 2021
Indiana Society of Paleontology Annual Meeting	2016
Paleontological Society Short Course on Virtual Paleontology	2016
Pervasive Technology Institute, Indiana University UITS	2016
Indiana Geological Survey Colloquium	2015
G685 Evolution of Ecosystems, Department of Geological Sciences, Indiana University	2015
Evolution Discussion Group Seminar, Department of Biology, Indiana University	2015
9 <sup>th</sup> Annual AGSA Symposium: Digital Communication, Collaboration, and Preservation	2015
AGSA Fall Seminar Keynote: Digital Research in the Anthropological Sciences	2015
Biology Undergraduate Research Night, Indiana University	2015
G563 Quantitative Paleontology, Indiana University	2014
Career Day, Electronic Classroom of Tomorrow (ECOT: a free, online K-12 school)	2014
Geology Colloquium, University of Cincinnati	2012, 2014
Eco-Lunch Seminar Series, University of Akron	2010

### **CONFERENCE PRESENTATIONS**

Society for the Preservation of Natural History Collections	2017, 2018, 2023
Biodiversity Information Standards, Otago, New Zealand	2018
Federation of Earth Science Information Partners	2018
Inaugural Digital Data in Biodiversity Research, Ann Arbor, MI	2017
Indiana Academy of Science, Indianapolis, IN	2017
Association for Information Science and Technology, Copenhagen, Denmark	2016
International Federation of Library Associations and Institutions, Chicago, IL	2016
Society for American Archaeology	2016
World Library Information Congress, Chicago, IL	2016
International Paleontological Congress, Mendoza, Argentina	2014
North American Paleontological Convention	2009, 2014
Geological Society of America National Meeting	2006, 2007, 2009, 2012-2018
World Congress of Malacology, University of the Azores, Portugal	2013
The Indiana Academy of Science Annual Meeting	2013
Graduate Poster Forum, University of Cincinnati	2011, 2012, 2013
The Molluscan Forum, Natural History Museum, London, United Kingdom	2012
Geological Society of America, North-Central Section Meeting	2006, 2012

Conference on Undergraduate and Graduate Student Research, University of Akron	2009
The Society of Vertebrate Paleontology Annual Meeting	2008
The Stander Symposium, University of Dayton	2005, 2006, 2007, 2008
The Ohio Academy of Science Annual Meeting	2006

### **GRANTS AND AWARDS**

Combining Project Mgmt. Digitization Efforts to Benefit Collections (NSF, iDigBio)	2023
IndianaMap cyberinfrastructure growth and development (IU)	2021
National Mesonet Program (Synoptic Climate Data Corporation)	2020, 2021
IGWS Data Preservation 2021 (United States Geological Survey: National Geophysical and Geological Data Preservation Program)	2021
Piloting the OSDU platform for inter-state geological survey data management (Federation for Earth Science Information Partnerships)	2021
Prepared for Environmental Change: Environmental Forecast Matrix (IU)	2019
IU Bicentennial Travel Grant	2019
Building Museums: Professional Development Grant (IU)	2018
Owen Up to the Truth: Uncovering the Hidden History of <i>Megalonyx jeffersonii</i> to Engage in Indiana University's Natural History Collections (IU)	2018
Prepared for Environmental Change Y2: Spatial Knowledge Hub (IU)	2018
Prepared for Environmental Change Y2: Environmental Forecast Matrix (IU)	2018
Incorporating Geologic Maps into Public Apps – Flyover Country & Macrostrat (NSF)	2018
Science Gateways – Building Cyberinfrastructure for Ultra-High-Resolution Macrophotography and Panoramic Imagery for Natural Sciences (NSF & XSEDE)	2018
Cyberinfrastructure for Natural History Collections Management Systems (NSF & XSEDE)	2018
Digitization PEN: Paleoniches on the western arch: the Ordovician of Indiana (NSF)	2017
Photogrammetric Metadata: Standardization Recommendations (ESIP)	2017
Machine Learning HTR for Paleontology Catalog Parsing & Transcription (Microsoft)	2017
Georeferencing Research Data (NSF, iDigBio)	2016
ACCESSioning at IU: Promoting Digital Access & Discovery of the IUPC (IMLS)	2016
Managing Natural History Collections Data for Global Discoverability (NSF, iDigBio)	2015
Strategies for Vertebrate Digitization (NSF, iDigBio)	2015
Advancing the Accessibility of Digital Media for Bio. Research (NSF, iDigBio)	2015
University Graduate Studies Award (University of Cincinnati)	2014
Lerner-Gray Memorial Fund for Marine Research (American Museum of Natural History)	2013
University Research Council Research Fellowship (University of Cincinnati)	2013
Student Travel Award (Unitas Malacologica)	2013
Outstanding Research Proposal (Malacological Society of Australasia)	2012
Graduate Student Research Grant (Geological Society of America)	2012
Student Travel Award (Malacological Society of London)	2012
Harvey Sunderman Award for Excellence in Teaching	2012
Graduate Student Governance Association Research Award (Univ. of Cincinnati)	2011, 2013
Kenneth E. Caster Memorial Fund for Research in Paleontology	2011
University of Cincinnati Globalization Grant	2011



Personal Enrichment Grant (University of Akron)	2009
Best Student Poster at the Council on Graduate Student Research (University of Akron)	2009
George H. Springer Award for the Outstanding Student in Geology (University of Dayton)	2008
Russell A. Joly S.M. Award for Excellence in Biology (University of Dayton)	2008
Maureen E. O'Rourke Marianist Student Award (University of Dayton)	2008
International Learn, Lead, and Serve Award & Grant (University of Dayton)	2007
Humanities Base Writing Contest Award (University of Dayton)	2005
AXA Community Achievement Award	2004

### **PROFESSIONAL AFFILIATIONS**

TDWG: Biodiversity Information Standards	2018-present
Earth Science Information Partners	2017-present
Research Data Alliance	2016-present
Society for the Preservation of Natural History Collections	2016-present
Sigma Xi (University of Cincinnati chapter)	2011-present
The American Association of Petroleum Geologists	2008-present
The National Geographic Society	2005-present
American Association of State Geologists	2017-2021
Indiana Geographic Information Council	2017-2020
The Paleontological Society	2009-2018
The Geological Society of America	2006-2019
Western Interior Paleontological Society	2013
Unitas Malacologica	2012-2018
Malacological Society of Australasia	2012-2015
The American Malacological Society	2011-2013
The Society of Vertebrate Paleontology	2008-2011
The American Institute of Professional Geologists	2006-2008
The Ohio Academy of Science	2006