

## Alycia L. Stigall

Jones/Bibee Professor and Department Head

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### Leadership experience

As Head of Earth and Planetary Sciences at the University of Tennessee, Knoxville since 2022, I have strived to establish transparent communication and follow a team-based approach to department initiatives. Key initiatives have included development of enhanced communication pathways, increased philanthropic contributions—including finalizing a ~\$7M gift, increased equity in service assignments, revision of faculty evaluation rubrics, stabilization of departmental leadership in both academic and administrative segments of the department, growing undergraduate enrollment and faculty numbers, and leading departmental strategic analysis and the decadal Academic Program Review, updating the department name, revising undergraduate field curriculum to be more inclusive and flexible while increasing learning opportunities and outcomes. As Chair of Geological Sciences at Ohio University from 2020 to 2022, I supported the launch of the new online professional MS program, initiated curricular revision of geology majors and minors that capitalized on the strength of the faculty members to update the curriculum and provide outstanding geological training for our students, supported curricular revision of our general education program. I initiated a Diversity and Inclusion committee and worked to foster a culture that values diversity and inclusion as a core value within the department through analysis and policy development. I worked to support our faculty and students in support of and through the 2020-21 pandemic year, provided faculty mentorship, managed department finances, facilitated the development of a new \$50k endowment funded with a donor, and successfully advocated to new faculty members. From 2017-2020, I served as Treasurer and member of the Executive Board of the Paleontological Society, during which time I managed an investment portfolio of ~\$4.5M and an annual operating budget of ~\$425,000 while participating in governance of the society including development and implementation of a robust Code of Conduct. Serving on leadership teams of journals, international scientific projects (ex., IGCP 653, ISOS), the OHIO Museum Complex, the 2021-22 Mid-Atlantic Conference (MAC) Academic Leadership Development Program, and conference organization has provided further opportunities to develop a diverse array of leadership skills and strategies.

### Research Focus

My research focuses on two primary areas of investigation: (1) elucidating the interaction between paleobiogeography, paleoecology, and macroevolution during episodes of biotic overturn, Paleozoic brachiopods are the main taxon of interest in this line of inquiry and (2) phylogenetic and taphonomic analysis of evolutionary patterns in Brachiopoda and Crustacea. My research program emphasizes developing quantitative methods of analysis, particularly developing applications of GIS methods for use in paleobiogeography, phylogenetic reconstruction, and paleobiologic inferences based on phylogenetic hypotheses. The overarching goal of these lines of research is to better constrain the long-term effects of invasive species on biodiversity change, a topic of concern for mitigating the modern biodiversity crisis. I am also actively engaged with diversity, equity, and inclusion efforts in our department and in scientific societies and in digitizing of museum

collections and developing outreach tools for educators, avocational paleontologists, and the general public.

## Education

- 2001-2004 Ph.D. Geology, The University of Kansas, *with honors*, May 2004, thesis advisor Bruce S. Lieberman. Thesis title: "Invasive species and biodiversity decline: Investigating the connection between biogeographic and evolutionary patterns during the Late Devonian biodiversity crisis"
- 1999-2001 M.S. Geology, The University of Kansas, *with honors*, May 2001, thesis advisor Bruce S. Lieberman. Thesis title: "Invasive species and mass extinction: A phylogenetic and biogeographic study of the subclass Phyllocarida (Class Crustacea) during the Late Devonian biodiversity crisis"
- 1995-1999 B.S. Geological Sciences, The Ohio State University, *summa cum laude, with distinction in geological sciences, with honors in the liberal arts*, June 1999, thesis advisor Loren E. Babcock. Thesis title: "Phylogeny of Freshwater Crayfish"
- 1995-1999 B.S. Biology, The Ohio State University, *summa cum laude*

## Professional Experience

- 2022-present Jones/Bibee Professor and Department Head, University of Tennessee, Knoxville, Department of Earth and Planetary Sciences
- 2020-2022 Department Chair, Ohio University, Department of Geological Sciences
- 2022-2023 Adjunct Professor, Ohio University, Department of Geological Sciences
- 2015-2022 Professor, Ohio University, Department of Geological Sciences
- 2018-2022 Advisory Board, Ohio Museum Complex
- 2009-2022 Curator, Ohio University Invertebrate Paleontology Collections
- 2009-2015 Associate Professor, Ohio University, Department of Geological Sciences
- 2004-2009 Assistant Professor, Ohio University, Department of Geological Sciences
- 2014-2022 Affiliate faculty member, Women's, Gender, and Sexuality Studies Program
- 2006-2022 Advisory Board and Member, OHIO Center for Ecology and Evolutionary Studies
- 2005 Visiting Researcher, Yale University, Department of Geology and Geophysics
- 2004 Post-doctoral Researcher, The Ohio State University, Department of Geological Sciences
- 2002-2003 Adjunct Instructor, Washburn University, Department of Physics and Astronomy
- 2000 Graduate Teaching Associate, University of Kansas, Department of Geology
- 1997-1999 Student Instructional Assistant, The Ohio State University, Department of Geological Sciences
- 1996-1997 Student Research Assistant, The Ohio State University, Department of Biochemistry

## Courses Taught

### At UTK

Paleoecology	Geol 443/590	Paleobiology Seminar	Geol 641
Regional Field Geology	Geol 490/590		

### At OHIO

Principles of Paleontology	Geol 3/5400	Introduction to Geology	Geol 1010
Earth and Life History	Geol 2210	Historical Geology	Geol 2550
Paleobiogeography	Geol 4/5430	Paleoecology	Geol 4/5480
Earth Systems Evolution	Geol 4/5460	Regional Field Geology	Geol 4/5610
Field Geology	Geol 4/5960		
Carbonate Depositional Systems I (lecture/lab) and II (field course)		Geol 4/5540 & Geol 4/5541	

## Collections curated

**Ohio University, Invertebrate Paleontology Collection, 2009-2022.** The collection focuses on Ordovician marine invertebrate fossils from Ohio and surrounding states. Key holdings include the Jack Kallmeyer and Joseph Stocker collections from the Cincinnati, Ohio Region. This collection, newly acquired under my supervision, includes approximately 15,000 georeferenced specimens, which are managed in a Specify 6.1 database. Data are publicly available via iDigBio (<https://www.idigbio.org/portal/recordsets/0d05a365-36e8-4150-a350-23ed33f79b17>) and GBIF portals (<http://www.gbif.org/dataset/3c001217-eea8-4f59-8b28-885699f8cd6c>).

## Grants and Awards

### External Grants Submitted

2025-2030 "Collaborative Research: BoCP-Implementation: US-China: High temporal resolution and spatial dissection of the biotic and abiotic drivers of Ordovician biodiversity change" \$2.8 M (\$517,119 to UTK), National Science Foundation, PIs Alycia Stigall, Charles Marshall (UCB), Seth Finnegan(UCB), Lisa White(UCB), Jessica Bean (UCB), in review

### External Grants Awarded

2019-2020 "Rural K-12 OHIO Museum Complex" \$5000. Environmental Education Ohio Environmental Education Fund. Multiple OHIO PIs

2018-2024 "RALLY (Rural Appalachian Leaders and Local Youth) for STEM" \$2,321,818, National Science Foundation, Allyson Hallman-Thrasher (lead-PI) with A.L. Stigall, Danielle Dani, Chang Liu, and Nancy Sandler as co-PIs

2016-2021 "IGCP Project: The onset of the Great Ordovician Biodiversification Event: What triggered the biggest radiation of the Phanerozoic?" \$50,000 USD, UNESCO. PIs Thomas Servais, David Harper, Olga Obut, Christian Rasmussen, Alycia Stigall, Zhang Yuandong

2016-2017 "Scaffolding Inquiry and Problem Solving through Literacy and Assessment Strategies" \$136,953, Improving Teacher Quality State Grants Program, Ohio Board of Regents, PI Danielle Dani, Co-PIs Geraldine Botte, Sara Helfrich, Courtney Koestler, Nancy Sandler, Alycia Stigall

2013-2014 "Scaffolding Inquiry through Literacy and Assessment Strategies (SILAS)" \$86,991, Improving Teacher Quality State Grants Program, Ohio Board of Regents, PI Danielle Dani, Co-PIs Sara Helfrich, Aaron Sickel, Barry Oches, Alycia Stigall

2012-2016 "Digitization TCN: Collaborative Research: Digitizing Fossils to Enable New Syntheses in Biogeography - Creating a PALEONICHES-TCN" \$952,437 (\$194,462 to OHIO), National Science Foundation, Biological Sciences—Emerging Frontiers, PI with Bruce

- Lieberman (KU) and Jon Hendricks (SJSU), and Co-PI's Brenda Hunda (CMC), Kendall Hauer (MUGM), Una Farrell (KU), James Beach (KU), Roger Portell (FMNH)
- 2010-2011 "Lava, lakes, and life: Assessing the development of Jurassic lake ecosystems in Namibia" \$17,500, National Geographic Society, co-PI Elizabeth Gierlowski-Kordesch
- 2009-2013 "The biogeographic impact of the Late Ordovician Richmondian Invasion: Assessing faunal dynamics by combining niche modeling and evolutionary history of Cincinnati brachiopods" \$152,000, Sole PI, National Science Foundation
- 2008-2011 "Using genetic algorithm modeling of sedimentary parameters to predict geographic ranges of species" \$50,000, American Chemical Society, Petroleum Research Fund
- 1999-2002 National Science Foundation Graduate Research Fellowship, 1999-2002, \$84,000

### **Internal Grants Awarded**

#### *University of Tennessee, Knoxville*

- 2023 Faculty Research Assistants Funding Award, \$2250, Office of Undergraduate Research and Fellowships

#### *Ohio University*

- 2020 "Acquisition of paleogeographic maps" \$5685, University Libraries, 1804 Special Library Endowment
- 2017 "Workshop on exceptionally preserved fossils" \$1000, College of Arts and Sciences Faculty Development Fund
- 2017-2019 "Ohio University Museum Complex on the Ridges" \$88,000, Konneker Fund for Learning and Discovery, Nancy Stevens (lead-PI) with A.L. Stigall and 7 other co-PI's
- 2017-2019 "Digital and 3D printed fossil collections assistant" \$2385, Ohio University Program to Aid Career Exploration (PACE)
- 2016-2019 "Research and Curatorial Assistant in Paleontology" \$2385 per year, Ohio University Program to Aid Career Exploration (PACE)
- 2016 "Gaining first-hand experience with historically critical rock sections" \$1200, College of Arts and Sciences Faculty Development Fund
- 2015-2016 "Research Assistant in Invertebrate Paleontology" \$2385, Ohio University Program to Aid Career Exploration (PACE)
- 2015-2016 "Constraining the timing of the Great Ordovician Biodiversification Event (GOBE) in North American brachiopods" \$7980, Ohio University Research Council
- 2014-2015 "Paleontology website content and media developer" \$2385, Ohio University Program to Aid Career Exploration (PACE)
- 2013-2017 "3D imaging of fossil specimens" \$2385 per year, Ohio University Program to Aid Career Exploration (PACE)
- 2013-2014 "Paleontological curatorial assistant and media developer" \$2355, Ohio University Program to Aid Career Exploration (PACE)
- 2013, 2014, 2016 Ohio University International Travel Fund Award, \$750

- 2012-2013 "Paleontology Field Assistant" \$2230, Ohio University Program to Aid Career Exploration (PACE)
- 2012-2013 "Research Assistant in Invertebrate Paleontology" \$2230, Ohio University Program to Aid Career Exploration (PACE)
- 2012 "Digitizing Fossils to Enable New Syntheses in Biogeography" \$6000, Ohio University Research Challenge
- 2011-2012 "Paleontology Research Assistant" \$2230, Ohio University Program to Aid Career Exploration (PACE)
- 2010-2011 "Curatorial assistant in invertebrate paleontology" \$2230, Ohio University Program to Aid Career Exploration (PACE)
- 2009-2010 "Curatorial assistant for a newly acquired Cincinnati fossil collection" \$2230, Ohio University Program to Aid Career Exploration (PACE)
- 2008-2009 "Assessing the long term impacts of invasive species by analyzing biogeographic change in the fossil record: A case study from the Richmondian Invasion (Late Ordovician) in the Cincinnati, Ohio Region" \$12,000, Ohio University Baker Fund
- 2008-2009 "Mapping and outreach development for Cincinnati fossils" \$2150, Ohio University Program to Aid Career Exploration (PACE)
- 2006, 2007, & 2009 Ohio University International Travel Fund Award, \$400 each
- 2007-2008 "Using genetic algorithm modeling of sedimentary parameters to predict geographic ranges of species" \$5000, Ohio University Research Challenge
- 2007-2008 "GIS and web-design for Cincinnati fossils", Ohio University Program to Aid Career Exploration (PACE), \$2100
- 2005-2006 "Quantifying the Geographic Range of Late Devonian Species Using GIS and Niche Modeling Methods: Deciphering the Mechanics of Species Movement during a Mass Extinction Interval" \$5000, Ohio University Research Challenge
- 2005-2006 "Investigating the connection between species invasions and speciation mode using GIS and phylogenetics during the Late Ordovician Mass Extinction" \$7405, Ohio University Research Council
- 2005-2006 "Testing the Record of Climate Change in the Late Pennsylvanian of Southeastern Ohio" Co-PI with G. Nadon, \$25,000, Ohio University Post-doctoral Fellowship Program

### **Honors and Awards**

- 2023 Outstanding Educator Award, Department of Earth and Planetary Sciences Geoclub, University of Tennessee, Knoxville
- 2019, 2018, 2017, 2015 Ohio University Faculty Newsmaker
- 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012 & 2006 Outstanding Research Award, Department of Geological Sciences, Ohio University
- 2022, 2021, 2020, 2019, 2018, 2015 & 2009 Outstanding Service Award, Department of Geological Sciences, Ohio University

2021, 2020, Outstanding Teaching Award, Department of Geological Sciences, Ohio University  
 2017, 2015, 2011, 2009, 2008 & 2006

2017 Professional Excellence Award (for Academia/Research), Association for Women Geoscientists

2016 Charles Schuchert Awardee, Paleontological Society

2016 Fellow, Paleontological Society

2014 Outstanding Faculty Research and Scholarship Award in the Natural Sciences [First time awarded], College of Arts and Sciences, Ohio University

2013 Faculty Fellowship Leave, Ohio University

2010 Transformative Faculty Award, College of Arts and Sciences, Ohio University

2010 Grasselli Brown Faculty Teaching Award in the Natural Sciences, College of Arts and Sciences, Ohio University

2008 Nominated by the College of Arts and Sciences for the Class of 1950 Faculty Excellence Award, Ohio University

2006 Antarctic Service Medal of the United States of America

## Service

### Professional Societies

Geological Society of America	Paleontological Society
International Biogeography Society	Association for Women in Geosciences
Palaeontological Association	

### Professional Service

2024-2028 Subcommittee on Ordovician Stratigraphy, Vice Chairperson and Voting Member (elected executive committee role)

2024-2028 Organizing Committee for the 14<sup>th</sup> North American Paleontological Conference at the University of Tennessee, Knoxville

2023-2027 Financial Advisory Committee, Paleontological Society

2021-2024 Associate Editor for *npj Biodiversity*

2022-2025 Ethics Committee Member, Paleontological Society

2021-2025 Diversity and Inclusion Committee Member, Paleontological Society

2021 Conference co-organizer, "Ordovician of the World" IGCP 653/735 Annual Meeting, held virtually via Zoom.

2020-2024 Subcommittee on Ordovician Stratigraphy, Voting Member and Website Officer (appointed executive committee role)

2020-2021 *Priscum* Editor, Newsletter of the Paleontological Society

2020- Ally level Affiliate of the Institute for the Quantitative Study of Inclusion, Diversity, and Equity (QSIDE)

- 2020 Conference co-organizer, “Zooming in on the GOBE” IGCP 653 Annual Meeting, held virtually via Zoom.
- 2019 Symposium convener, “The end of the Cambrian “boom and bust” and the onset of the Great Ordovician Biodiversification Event (GOBE): diversity patterns, paleoecology and paleobiogeography” at the 11<sup>th</sup> North American Paleontological Convention in Riverside, CA.
- 2018 Conference organizer, “Trekking across the GOBE: from the Cambrian through the Katian,” IGCP 653 Annual Meeting, Athens, Ohio with field excursions to Utah, Nevada, and Kentucky.
- 2017 Symposium convener, “The onset of the Great Ordovician Biodiversification Event (GOBE): testing hypotheses with diverse data sets” at the Annual GSA meeting in Seattle, WA.
- 2017-2019 Organizing Committee, Analytical Paleobiology Short Course
- 2017-2020 Treasurer and member of the Executive Committee, Paleontological Society
- 2017-2019 Deputy Editor-in-Chief, *Frontiers in Biogeography*
- 2016-2021 Co-Leader of the International Geosciences Programme (IGCP) Project 653: The onset of the Great Ordovician Biodiversity Event
- 2015-2017 Nominating Committee, Paleontological Society
- 2015 Symposium convener, “Paleobiogeography: The Importance of Fossil Data to Species Biogeography Past, Present, and Future” at the International Biogeography Society 7<sup>th</sup> Biennial Conference, Bayreuth, Germany
- 2014 Nominating Committee, International Palaeontological Association
- 2013 Chair for technical session, “Biogeography of the Anthropocene” at the 6<sup>th</sup> Biennial International Biogeography Society Meeting
- 2012-2013 International Biogeography Society, Conference Program and Abstract Committee
- 2017, 2012, 2008, 2007, & 2004 Chair for technical sessions at Geological Society of America meetings
- 2012-2016 Participant in the International Geosciences Programme (IGCP) Project 591: The Early and Middle Paleozoic Revolution
- 2011-2015 Participant in the International Geosciences Programme (IGCP) Project 596: Climate change and biodiversity patterns in the Mid-Paleozoic
- 2011-2013 Paleontological Society Councilor at Large (Under 40) (=Membership Chair)
- 2010, 2013 NSF Panelist, Sedimentology and Paleobiology Program
- 2008-2011 Paleontological Society Nominating Committee
- 2007-2009 Member of the Organizing Committee for the North American Paleontological Conference
- 2006-2007 Paleontological Society North Central Section Chair
- 2006-2013 Geological Society of America Campus Representative to Ohio University
- 2005-present Member of the Paleobiology Database

- 2005-present Associate Editor of *Palaeontologica Electronica*
- 2005-2009 Participant in the International Geosciences Programme (IGCP) Project 503: Ordovician Paleogeography and Paleoclimate
- 2005-2008 Participant in the International Geosciences Programme (IGCP) Project 499: Devonian Land-Sea Interaction: Evolution of Ecosystems and Climate

### **Working Groups**

- 2021-2026 NSF funded Research Coordination Network (RCN): Ecological and Evolutionary Effects of Extinction and Ecosystem Engineers (E6), Steering Committee member
- 2018-2021 NSF funded Research Coordination Network (RCN): Revolutionizing Systematics - Revitalizing Monographs, Steering Committee member
- 2017-2021 NSF funded Research Coordination Network (RCN): EarthRates

### **Professional Development Leadership**

- 2022 Using Ecological Niche Models in Paleontology, Paleontological Society Short Course, Denver, CO, October 8, 2022.
- 2019 Facilitator for “Digital resources in paleontology, professional development workshop” for K-12 teachers at the Riverside (CA) STEM Academy.
- 2016-17 Co-leader of “Scaffolding Inquiry and Problem Solving through Literacy and Assessment Strategies (SIPLAS)” 5-day summer workshop and school year intervention for twenty in-service science teachers from Appalachian Ohio. Content focus on Earth Science.
- 2014, 2015, 2017 Workshop for in-service teachers on “Oceans of Ohio” held at the Cincinnati Museum Center. Afternoon workshop for fifteen in-service science teachers from the Cincinnati Tri-State region on incorporating local fossil resources into their classrooms using inquiry-based standards-aligned lessons.
- 2013 Co-leader of “Scaffolding Inquiry through Literacy and Assessment Strategies (SILAS)” 5-day workshop for twenty in-service science teachers from Appalachian Ohio. Content focus on Tectonics and Earth History.

### **Professional Development Training**

- 2022-2023 New Academic Leaders Academy, Led the by office of the Provost, University of Tennessee, Knoxville
- 2021-2022 Mid-American Conference Academic Leadership Development Program, Competitive selection process for year-long program focused on developing academic leadership skills
- 2020 Online curriculum design workshops: Remote Teaching Fundamentals and Instructional Strategies for Remote and Online Teaching II and II via Ohio University’s Office of Instructional Innovation, July-August 2020
- 2020 GSA webinar series for remote teaching using Google Earth, GigaPan, and Virtual Landscapes for Remote Teaching, June 2020



- 2019 Quantitative Methods in Phylogenetic Paleobiology, Paleontological Society Short Course, Phoenix, AZ, September 2019
- 2019 Virtual Reality Simulation Microaggression Training for the Paleontological Society Diversity and Inclusion Liaisons, July 2019
- 2019 Managing Microaggressions Training, Three-hour training by Dr. Dena Samuels for the Paleontological Society Diversity and Inclusion Liaisons, June 2019, Riverside, CA
- 2019 Ethics committee skills building Training, Three-hour virtual training by Dr. Dena Samuels for the Paleontological Society Diversity and Inclusion Liaisons, May 2019
- 2019 Diversity and Inclusion Training, Day-long training by Dr. Dena Samuels for the Paleontological Society Council, March 2019, Bethesda, MD
- 2017 Hearts of G.O.L.D. (Geoscience Opportunities for Leadership in Diversity) workshop, NSF-sponsored training in diversity development. July 2017, Colorado Springs, CO

### **Post-doctoral scholars mentored**

Katherine Jordan-Burmeister 2024-present

### **Graduate Advisees at the University of Tennessee, Knoxville**

Mariana Vilela de Andrade 2024- TBD (PhD degree)

Shymah Beegam Kundladi 2023- TBD (PhD degree)

Noel Hernández Gómez 2023-2024 Ecological niche modelling assessment of evolutionary change across the Richmondian Invasion in the Nashville Dome (MS degree)

Mariana Vilela de Andrade 2022-2024 Tiny brachiopods, Tiny Ordovician brachiopods from the eastern United States: An assessment of biogeographic, speciation, and niche partitioning trends (MS degree)

### **Graduate (M.S.) Advisees at Ohio University**

Sarah Hennessey 2021-2023 Constraining morphological change across the Great Ordovician Biodiversification Event: A case study from the Arbuckle Mountains of Oklahoma

Ian Forsythe 2020-2022 Quantifying the biotic response to the Clarksville Phase of the Richmondian Invasion

Ceara Purcell 2019-2021 How did ecological niches evolve during Ordovician environmental change? A test using Laurentian brachiopods

Shaolin Censullo 2018-2020 Did alternating dispersal and vicariance contribute to increased biodiversification during the Great Ordovician Biodiversification Event? A phylogenetic test using brachiopods

Ranjeev Epa 2015-2017 Paleocology of the freshwater gastropods from the late Oligocene Nsungwe Formation of Tanzania

Nilmani Perera	2015-2017	Hierarchical spatial patterns in paleocommunities of the Late Pennsylvanian Ames Limestone
Sarah Trubovitz	2014-2016	Brachiopod diversity during the Great Ordovician Biodiversification Event in the Middle Ordovician Simpson Group (Oklahoma)
Adriane Lam	2013-2015	Paleobiogeographic analyses of a Late Ordovician faunal migration: Assessing regional and continental pathways and mechanisms
Jennifer Bauer	2012-2014	A phylogenetic and paleobiogeographic analysis of the Ordovician brachiopod <i>Eochonetes</i>
Hannah-Maria Brame	2011-2013	Are niche stability responses to variable environmental changes congruent across clades, at different taxonomic scales, and through time?
David Wright	2010-2012	Macroevolution and paleobiogeography of Middle to Late Ordovician brachiopods: A phylogenetic biogeographic approach
Richard Malizia	2009-2011	Analyzing niche stability in Late Ordovician articulated brachiopods during the Richmondian Invasion
Nicole Dudei	2007-2009	The impact of the Richmondian Invasion on paleobiogeographic distribution of taxa in the Late Ordovician C4 sequence (Richmondian Stage, Cincinnati, Ohio) including a comparison of range reconstruction methods
Robert Swisher	2007-2009	Paleobiogeographical and evolutionary analysis of Late Ordovician C5 sequence brachiopod species with special reference to rhynchonellid taxa
Bradley Walls	2007-2009	Quantitative paleobiogeography of Maysvillian (Late Ordovician) brachiopod species on the Cincinnati Arch: A test of niche modeling methods for paleobiogeographic reconstruction
Kaitlin Clare Maguire	2006-2008	Paleobiogeography of Miocene to Pliocene Equinae of North America: A phylogenetic biogeographic and niche modeling approach
Brandon Klingensmith	2005-2007 (degree 2011)	GIS-based biogeography of Cincinnati (Upper Ordovician) brachiopods with special reference to <i>Hebertella</i>

### **Undergraduate Theses at Ohio University**

Kelly O'Meara	2020-2021	New Cretaceous fossils from Utah: testing family identity, preservation, and paleoenvironment, BS thesis
Ian Forsythe	2018-2020	Species delineation in character poor specimens: lessons from <i>Rafinesquina</i> ; BS Honors thesis
James Anderson	2015-2016	Petrographic comparison of the basal sandstones of the

		Simpson Group (Middle Ordovician, Oklahoma), BS thesis
Wesley Parker	2014-2015	Taphonomic analysis of bivalves from the Late Ordovician Arnheim Formation, Weedonia, KY; BS Honors thesis
Emily Callahan	2008-2009	A paleoecological and biogeographic analysis of Late Ordovician community composition (Kope through Bellevue Formations: Cincinnati, Ohio region); BS Honors thesis
Kristen Everman	2006-2007	Characterizing Jurassic Spinicaudata of Antarctica: Systematic and Paleoecological Implications; BS thesis

### **Service and Committee Appointments at the University of Tennessee, Knoxville**

2024-2025	Chair, Department Head Search for Department of Chemistry
2024-2025	Study Abroad Committee, College of Arts and Sciences
2022-present	Department Head, Department of Earth and Planetary Sciences
2022-2023	Global Energy Ecosystems Initiative Committee

### **Service and Committee Appointments at Ohio University**

2020-2022	Department Chair, Department of Geological Sciences
2022	Nanoscale & Quantum Phenomena Institute 5 year review committee
2022	Vice President for Research and Creative Activity Evaluation Committee
2021	Instructional Faculty Search Committee Chair, Department of Geological Sciences
2020	Graduate Program Committee, College of Arts and Sciences
2020	Konneker Medal Selection Committee
2019-2022	OHIO Museum Complex Executive Committee
2019-2020	Curriculum Chair, Department of Geological Sciences
2018-2019	Solid Earth Geology Search Committee, Chair, Department of Geological Sciences
2018-2019	Dean of Libraries Search Committee, Ohio University
2018-2019	Petrology Search Committee, Department of Geological Sciences
2018-2019	Colloquium Coordinator, Department of Geological Sciences
2018	Ad hoc Advisory Committee on Tenure and Promotion Revision, College of Arts and Sciences
2017-2018	Geological Sciences Alumni Graduate Research Grant Committee, Department of Geological Sciences, Chair
2017-2022	Outreach/Social Media Coordinator, Department of Geological Sciences
2017	Strategic Planning Working Group, Department of Geological Sciences
2017	Petrology Search Committee, Department of Geological Sciences, Chair
2016-2019	Provost's Undergraduate Research Grant Committee, Ohio University
2016-2020	Promotion and Tenure Advisory Committee, College of Arts & Sciences
2015-2019	Internal Program Evaluator, Ohio University
2015-2018	Professional Development Committee, College of Arts and Sciences
2014-2019	Advisory Board, Ohio University Museum of Science and Environment
2013-2017	Graduate Program Coordinator, Department of Geological Sciences
2015-2016	Ad hoc Research and Scholarship Committee, College of Arts and Sciences
2014-2016	Science Education Faculty Search Committee, Department of Teacher Education, Patton College of Education, Ohio University
2014-2015	Leadership Development Group, College of Arts and Sciences
2013-2016	Kennedy/Frontiers in Science Lecture Committee, Ohio University
2013-2015	Research Advisory Committee, College of Arts and Sciences
2012-2022	Library Committee, Ohio University

2012-2013 Faculty Liaison to the Alumni Board, Department of Geological Sciences  
 2012 Staffing Committee, College of Arts and Sciences  
 2012 Grade Grievance Committee, College of Arts and Sciences  
 2011-2012 Awards Advisory Committee, College of Arts and Sciences  
 2009-2012 Promotion and Tenure Advisory Committee, College of Arts & Sciences  
 2008-2011 Baker Fund Committee, Ohio University  
 2009-2011 Undergraduate Advising Coordinator, Department of Geological Sciences  
 2009-2020 Promotion and Tenure Committee, Department of Geological Sciences  
 2007-2010 Faculty Fellowship Leave Committee, Department of Geological Sciences, Chair 2009-2010  
 2008-2012 Petrology Search Committee, Department of Geological Sciences, Chair 2011-2012  
 2008-2009 Geology Club Advisor, Department of Geological Sciences  
 2005-2009 Geological Sciences Alumni Graduate Research Grant Committee, Department of Geological Sciences, Chair 2005-2007  
 2007-2008 Sturgeon Visiting Professor Committee, Department of Geological Sciences  
 2007-2008 Hydrogeology Search Committee, Department of Geological Sciences  
 2006-2022 Advisory Board Member, OHIO Center for Ecology and Evolutionary Studies  
 2005-2008 Colloquium Committee, Department of Geological Sciences, Chair 2006-2008  
 2005-2006 Undergraduate Recruiting Committee, Department of Geological Sciences  
 2004-2005 Web Page Committee, Department of Geological Sciences

### **Community Service**

2016-2022 STEM-focused Girls Scout leader (Troop 51191, from Kindergarten Daisies to 5<sup>th</sup> Grade Juniors)  
 2014, 2015, 2017 Fossil Fest at the Cincinnati Museum Center, presented K-12 teacher workshop and ran demonstration booth  
 2020 Guest speaker for 6<sup>th</sup> grade about rocks and minerals at Morrison-Gordon Elementary School  
 2019 Guest speaker about paleontology and Mary Anning for Junior Girl Scout troop  
 2014-2018 Guest speaker for National Fossil Day at Morrison-Gordon Elementary School  
 2014 Hosted East Elementary School 3<sup>rd</sup> grade for fossil exploration in my lab/classroom  
 2013-present Annual Artifact Identification Day at Wayne National Forest (handled fossil ID)  
 2012-present Member of WitsOn (Women in Technology Sharing Online) Initiative to mentor undergraduate women about careers in STEM fields  
 2008-present Frequent guest speaker and frequent interactor with the Cincinnati Dry Dredgers avocational fossil association  
 2008-present Member of the Regional Resource Directory for the Paleontological Society, volunteer to field questions on evolution or paleontology from community members  
 2007-present Member of "The Clergy Letter Project", a group of scientists who volunteer to serve as resources for clergy members to learn the scientific basis of evolution  
 2008 Created educational poster about Pennsylvanian fossils in the Kohl's Ranch Area of Arizona for Kohl's Ranch Educational Outreach Program  
 2007 Participant in faculty panel discussion following public viewing of "An Inconvenient Truth" at Ohio University. Event sponsored by Ohio University Office of Resource Conservation.  
 2006 Presented "Oceans: Now and in the Past" for Addaville (Ohio) Elementary School Right to Read Week, Presentations for each grade K-4  
 2006-present Judge for the Southeast Ohio Regional Science Fair  
 2005-present Speaker for Annual Women in Science and Engineering Program for 5<sup>th</sup> to 8<sup>th</sup> grade students, Ohio University

2004-present Guest speaker for elementary and middle school science classrooms in the Athens, Ohio area

## Publications

Citation Profiles: *Google Scholar*: [http://scholar.google.com/citations?user=NR0mg\\_UAAAAJ&hl=en](http://scholar.google.com/citations?user=NR0mg_UAAAAJ&hl=en)  
h-index = 31; i10-index = 55  
*Scopus*: <http://www.scopus.com/authid/detail.url?authorId=15061934800>. h-index = 26.

## Outreach and Professional Websites/Apps Developed

[Digital Atlas of Ancient Life](#), Version 1.0: free iOS app, released September 2015. Version 2.3: free iOS and Android app, released July 2020.

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