

# Alycia L. Stigall

Professor and Department Chair

Department of Geological Sciences  
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## Leadership experience

As Chair of Geological Sciences, I have strived to establish transparent communication and follow a team-based approach to department initiatives. During my term, I have supported the launch of the new Online professional MS program, initiated curricular revision of geology majors and minors that capitalizes 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 have 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 have successfully advocated to hire of a new faculty member for Fall 2021. 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 on journals, international scientific projects (ex IGCP 653), the OHIO Museum Complex, 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

- 2020-present Chair, Ohio University, Department of Geological Sciences
- 2015-present Professor, Ohio University, Department of Geological Sciences
- 2018-present Advisory Board, Ohio Museum Complex
- 2009-present 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-present Affiliate faculty member, Women's, Gender, and Sexuality Studies Program
- 2006-present 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

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	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:** 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 In review**

2021-2024 “Collaborative Research: Colorado Plateau Coring Project 2: A continuous record of Triassic-Jurassic Environmental Change” \$4.1M (\$14,500 to OHIO) National Science Foundation, Sedimentary Geology and Paleontology. Lead PI: C. Suarez at University of Arkansas

### **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

2016-2020 “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**

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
- 2003 Graduate Student Paper Presenter Travel Award, University of Kansas, \$400
- 2002 Seilig Summer Field Research Award, University of Kansas, Department of Geology, \$1500
- 2001-2005 Madison and Lila Self Graduate Fellowship, University of Kansas, \$125,000
- 2000 Carl O. Dunbar Grant-in-Aid Award, Yale University Peabody Museum, \$500
- 1999-2004 Grinnell Fellowship, Department of Geology, University of Kansas, \$20,000
- 1998-1999 College of Arts and Sciences Undergraduate Research Scholarship, The Ohio State University, \$4000

### **Honors and Awards**

- 2019, 2018, 2017, 2015 Ohio University Faculty Newsmaker
- 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012 & 2006 Outstanding Research Award, Department of Geological Sciences, Ohio University
- 2021, 2020, 2019, 2018, 2015 & 2009 Outstanding Service Award, Department of Geological Sciences, Ohio University
- 2021, 2020, 2017, 2015, 2011, 2009, 2008 & 2006 Outstanding Teaching Award, Department of Geological Sciences, Ohio University
- 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

- 2004 Erasmus S. Haworth Distinguished Graduate Award, Ph.D. Level, University of Kansas Department of Geology
- 2001 Erasmus S. Haworth Distinguished Graduate Award, M.S. Level, University of Kansas Department of Geology

## Service

### Professional Societies

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

### Professional Service

- 2021-2024 Diversity and Inclusion Committee Member, Paleontological Society
- 2020-2024 Subcommission on Ordovician Stratigraphy, Voting Member
- 2020- 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
- 2005-present Proposal review for NSF- Sedimentary Geology and Paleobiology Program, NSF- Developmental and Evolutionary Biology: Evolutionary Processes Cluster, American Chemical Society’s Petroleum Research Fund, Leverhulme Trust, NSERC
- 2004-present Textbook review/Content consultant for W.H. Freeman, McGraw Hill, Norton Publishers, Oxford University Press, Scholastic Children’s Press, Wiley Publishers
- 2003-present Journal article reviews for *Alcheringa*, *American Naturalist*, *Ecography*, *Gondwana Research*, *Geology*, *Journal of Crustacean Biology*, *Journal of Biogeography*, *Journal of Paleontology*, *Journal of Systematic Palaeontology*, *Journal of Vertebrate Paleontology*, *Lethaia*, *Neues Jahrbuch für Geologie und Paläontologie*, *Palaeogeography*, *Palaeoclimatology*, and *Palaeoecology*, *Palaeontology*, *Paleobiology*, *PALAIOS*, *Paleontographica Americana*, *PLoS ONE*, *Proceedings of the Royal Society B*, *Revista Brasileira de Paleontologia*, *Sedimentology*, *Trends in Ecology and Evolution*
- 2002-2003 Student Representative to Paleontological Society Council
- 2000-2002 Secretary of Osage Chapter of Association for Women in Geosciences
- 2000-2001 Treasurer of Alpha Chapter of Sigma Gamma Epsilon and Geology Club

## Professional Development Leadership

- 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**

- 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 Microgression 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

### **Graduate (M.S.) Advisees (Ohio University does not offer the PhD in Geological Sciences)**

- |                 |       |  |
|-----------------|-------|--|
| Sarah Hennessey | 2021- | TBD  |
| Ian Forsythe    | 2020- | Investigating community response to species invasion in the Late Ordovician (Katian, Richmondian) of the Cincinnati, Ohio region |



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	Paleoecology 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	GIS-based biogeography of Cincinnati (Upper

(degree 2011) Ordovician) brachiopods with special reference to  
*Hebertella*

### **Undergraduate Theses**

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

### **Research Funding and Awards Received by Students for Projects under my Supervision**

2021	Ian Forsythe, Paleontological Society Student Research Grant, \$1200 Ian Forsythe, Geology Alumni Research Grant, Ohio University, \$600 Ian Forsythe, Geology Alumni Research Fellowship, Ohio University, \$3900
2020	Kelly O'Meara, Ohio University Provost's Undergraduate Research Fund, \$1462 Ceara Purcell, Dry Dredgers Paleontological Research Award, \$400 Ceara Purcell, Geological Society of America, Student Research Grant, \$2800 Ceara Purcell, Paleontological Society Student Research Grant, \$1200 Ceara Purcell, Geology Alumni Research Grant, Ohio University, \$600 Ceara Purcell, Geology Alumni Research Fellowship, Ohio University, \$3900
2019	Shaolin Censullo, Geology Alumni Research Grant, Ohio University, \$600 Shaolin Censullo, Geology Alumni Research Fellowship, Ohio University, \$3800 Shaolin Censullo, Schuchert and Dunbar Grant-in-Aid, Yale Peabody Museum, \$1500
2016	Ranjeev Epa, Paleontological Society Student Research Grant, \$800 Ranjeev Epa, Geology Alumni Research Grant, Ohio University, \$500 Ranjeev Epa, Geology Alumni Research Fellowship, Ohio University, \$3600 Nilmani Perera, Paleontological Society Student Research Grant, \$800 Nilmani Perera, Geology Alumni Research Grant, Ohio University, \$500 Nilmani Perera, Geology Alumni Research Fellowship, Ohio University, \$3600
2015	James Anderson, Ohio University Provost's Undergraduate Research Fund, \$1000 Sarah Trubovitz, Geological Society of America, Student Research Grant, \$1250 Sarah Trubovitz, Geology Alumni Research Grant, Ohio University, \$500 Sarah Trubovitz, Geology Alumni Research Fellowship, Ohio University, \$3600
2014	Adriane Lam, Dry Dredgers Paleontological Research Award, \$300

- Adriane Lam Paleontological Society Student Research Grant, \$800  
 Adriane Lam, Geology Alumni Research Grant, Ohio University, \$500  
 Adriane Lam, Geology Alumni Research Fellowship, Ohio University, \$3600  
 Wesley Parker, North Central Section of GSA, Undergraduate Research Grant, \$300  
 Wesley Parker, Ohio University Provost's Undergraduate Research Fund, \$1450  
 Jennifer Bauer, First Place, Ohio University Student Creativity and Research Fair, Library Award, \$150
- 2013 Jennifer Bauer, Dry Dredgers Paleontological Research Award, \$1000  
 Jennifer Bauer, Geological Society of America, Student Research Grant, \$2100  
 Jennifer Bauer, Geology Alumni Research Grant, Ohio University, \$500  
 Jennifer Bauer, Schuchert and Dunbar Grant-in-Aid, Yale Peabody Museum, \$1000  
 Hannah Brame, First Place, Ohio University Student Creativity and Research Fair, Geological Sciences, Geography, and Math Division, \$400
- 2012 Hannah Brame, Geological Society of America, Student Research Grant, \$1500  
 Hannah Brame, Paul Sanders Award, Cincinnati Dry Dredgers, \$500
- 2011 Richard Malizia, OHIO Center for Ecology and Evolutionary Studies Fellowship, \$4600  
 David Wright, OHIO Center for Ecology and Evolutionary Studies Fellowship, \$4600  
 David Wright, Schuchert and Dunbar Grant-in-Aid, Yale Peabody Museum, \$1080  
 David Wright, Paul Sanders Award, Cincinnati Dry Dredgers, \$1000
- 2010 Richard Malizia, Geological Society of America, Student Research Grant, \$1706
- 2008 Kaitlin Clare Maguire, OHIO Center for Ecology and Evolutionary Studies Fellowship, \$4100  
 Nicole Dudei, Geological Society of America, Student Research Grant, \$1000  
 Nicole Dudei, Geology Alumni Research Grant, Ohio University, \$250  
 Robert Swisher, Geological Society of America, Student Research Grant, \$1160  
 Robert Swisher, Geology Alumni Research Grant, Ohio University, \$250  
 Bradley Walls, Geological Society of America, Student Research Grant, \$600  
 Bradley Walls, Paleontological Society Boucot Student Research Grant, \$750  
 Bradley Walls, Geology Alumni Research Grant, Ohio University, \$450  
 Bradley Walls, 2<sup>nd</sup> place Paleontological Society Student Poster Award
- 2007 Kaitlin Clare Maguire, Geological Society of America, Student Research Grant, \$500  
 Kaitlin Clare Maguire, Geology Alumni Research Grant, Ohio University, \$525  
 Brandon Klingensmith, First Place, Ohio University Student Creativity and Research Fair, Geological Sciences and Geography Division, \$400  
 Kristen Everman, Outstanding Undergraduate Oral Presentation, Joint Meeting of the North-Central and South Central GSA, \$150
- 2006 Brandon Klingensmith, Geological Society of America, Students Grants in Aid, \$1400  
 Brandon Klingensmith, Geology Alumni Research Grant, Ohio University, \$350  
 Kristen Everman, Ohio University Provost's Undergraduate Research Fund, \$1410  
 Kristen Everman, North Central Section of GSA, Undergraduate Research Grant, \$300

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

- 2020-present Department Chair, Department of Geological Sciences  
 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-present 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-present 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-present 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  
 2012-2021 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-present 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-present 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-present STEM-focused Girls Scout leader (Troop 51191, started as Kindergarten Daisies, now 4<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 = 24; i10-index = 46  
*Scopus*: <http://www.scopus.com/authid/detail.url?authorId=15061934800>. h-index = 21.

## Outreach and Professional Websites/Apps Developed

[Digital Atlas of Ancient Life](#), Version 1.0: free iOS app, released September 2015. Version 2.0: free iOS and Android app, released December 2019.

Stigall, A.L. and Hembree, D.I., 2019-present. Geology Trek, Digital tour of Geology on Ohio University's Ridges Complex as part of the MappAthens project of the Ohio Museum Complex. <https://ohiou.maps.arcgis.com/apps/MapTour/index.html?appid=59946152ac5d424e8d95a6d749c2e6ce>

Stigall, A.L. 2016-present. IGCP 653: the Onset of the Great Ordovician Biodiversification Project website. [www.igcp653.org](http://www.igcp653.org)

Stigall, A.L. 2013-present. Atlas of Ordovician Life: Exploring the fauna of the Cincinnati Region. [www.ordovicianatlas.org](http://www.ordovicianatlas.org)

Hendricks, J.R. Lieberman, B.S., Stigall, A.L. 2013-present. The Digital Atlas of Ancient Life. [www.digitalatlasofancientlife.org](http://www.digitalatlasofancientlife.org)

Stigall, A.L. 2007-present. Stigall Lab website. [www.alyciastigall.org](http://www.alyciastigall.org)

Stigall, A.L. 2007-present Paleontology at OHIO. [www.ohio.edu/paleo](http://www.ohio.edu/paleo)

### **Books and Edited volumes**

**Stigall, A.L.**, Edwards, C.T., Freeman, R.L., and Rasmussen, C.M.Ø., editors. 2020. Across the Great Ordovician Biodiversification Event (GOBE): Advances in understanding the co-evolution Earth-life system from the late Cambrian through the Katian. Palaeogeography, Palaeoclimatology, Palaeoecology. Special issue for IGCP 653 2018 Annual Meeting in Athens, Ohio. 23 articles. <https://www.sciencedirect.com/journal/palaeogeography-palaeoclimatology-palaeoecology/special-issue/10LQ9R6FQ5K>

Rasmussen, C.M.Ø., **Stigall, A.L.**, Nielsen, A.T., Stouge, S., Schovsbo, N.H., editors. 2020. Abstracts and Programme. *Zooming in on the GOBE: 2020 Virtual Annual Meeting of IGCP 653, September 7-10, 2020*. Geological Survey of Denmark and Greenland (GEUS) Rapport 2020/21, 54.

Lieberman, B.S. and **Stigall Rode, A.L.**, editors. 2005. Paleobiogeography: Generating New Insights into the Coevolution of the Earth and Its Biota. The Paleontological Society Papers, volume 11, 158 p.

### **Peer-reviewed journal articles** (\* indicates student author, last name was previously Rode)

#### **Articles in review:**

Gorneau, J.A., .....**Stigall, A.L.**.....Espisito, L.A. (27 author team). In review. Framing the future for monography: improving recognition, support, and access. Bulletin of the Society of Systematic Biologists.

#### **Articles published or in press:**

\*Purcell, C.K.Q., **Stigall, A.L.** 2021. Ecological niche evolution, speciation, and feedback loops: investigating factors promoting niche evolution in Ordovician brachiopods of Laurentia. Palaeogeography, Palaeoclimatology, Palaeoecology, in press.

Dani, D.E., **Stigall, A.L.** 2021. Landslides: Using model-based inquiry to investigate local mass-wasting events. Science Scope, 44: 46-55. <https://www.nsta.org/science-scope/science-scope-marchapril-2021/landslides>

Antionetto, L.S., Park Boush, LE., Plotnick, R.E., **Stigall, A.L.** 2020. Paleocological aspects of western United States nonmarine ostracodes during the Eocene-Oligocene transition: the Early Oligocene faunas of the Renova Formation, southwestern Montana. Palaios, 35: 165-174. <https://doi.org/10.2110/palo.2019.040>

**Stigall, A.L.** Freeman, R.L., Edwards, C.T., and Rasmussen, C.M.Ø. 2020. A multidisciplinary perspective on the Great Ordovician Biodiversification Event and the development of the

- Paleozoic world. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 541: 109521.  
<https://doi.org/10.1016/j.palaeo.2019.109521>
- Gallego, O.F., Monferran, M.D., **Stigall, A.L.**, Zacarias, I.A., Hegna, T.A., Jiménez, V.C., Bittencourt, J., Li, G., Barrios Calathaki, H.G. 2020. The Devonian-Cretaceous fossil record of “conchostracans” of Africa and their paleobiogeographic relationships with other Gondwanan faunas. *Journal of African Earth Sciences*, 161: 103648. <https://doi.org/10.1016/j.jafrearsci.2019.103648>
- Stigall, A.L.** 2019. The invasion hierarchy: ecological and evolutionary consequences of invasions in the fossil record. *Annual Review of Ecology and Evolutionary Systematics*, 50: 355-380.  
<https://doi.org/10.1146/annurev-ecolsys-110617-062638>
- Stigall, A.L.** Edwards, C.T., Freeman, R.L., Rasmussen, C.M.Ø. 2019. Coordinated biotic and abiotic change during the Great Ordovician Biodiversification Event: Darriwilian assembly of early Paleozoic building blocks. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 530: 249-270.  
<https://doi.org/10.1016/j.palaeo.2019.05.034>
- Stigall, A.L.**, Fine, R. 2019. Epibole vs. ecological turnover: contrasting ecosystem impacts of biotic invasions on Ordovician communities. *Palaeoworld*, 18: 166-172.  
<https://doi.org/10.1016/j.palwor.2018.04.004>
- \*Epa, Y.R., **Stigall, A.L.**, Roberts, E.M., O'Brien, H.D., Stevens, N.J. 2018. Morphological diversification of ampullariid gastropods (Nsungwe Formation, late Oligocene, Rukwa Rift Basin) is coincident with onset of East African rifting” *Papers in Palaeontology*, 4: 327-348.  
<http://doi.org/10.1002/spp2.1108>
- Associated data:** Epa YR, Stigall AL, Roberts EM, O'Brien HD, Stevens NJ (2018) Data from: Morphological diversification of ampullariid gastropods (Nsungwe Formation, late Oligocene, Rukwa Rift Basin, Tanzania) is coincident with onset of East African rifting. Dryad Digital Repository. <https://doi.org/10.5061/dryad.b354f>
- \*Perera, S.N., **Stigall, A.L.** 2018. Identifying hierarchical spatial patterns within paleocommunities: An example from the Late Pennsylvanian Ames Limestone of the Appalachian basin. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 506: 1-11.  
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- \*Lam, A.R., **Stigall, A.L.**, Matzke, N.J. 2018. Dispersal in the Ordovician: Speciation patterns and paleobiogeographic analyses of brachiopods and trilobites. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 489: 147-165. <http://doi.org/10.1016/j.palaeo.2017.10.006>
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<https://www.nature.com/articles/s41561-017-0024-1>
- Stigall, A.L.** 2017. Response by Alycia L. Stigall for the presentation of the 2016 Schuchert Award for the Paleontological Society. *Journal of Paleontology*, 91: 1354-1355.  
<http://doi.org/10.1017/jpa.2017.118>

- Stigall, A.L.**, Plotnick, R.E., Park Boush, L.E. 2017. The first Cenozoic spinicaudatans from North America. *Journal of Paleontology*, 91: 467-476. <http://dx.doi.org/10.1017/jpa.2017.15>
- Stigall, A.L.**, \*Bauer, J.E., \*Lam, A.L., \*Wright, D.A. 2017. Biotic immigration events, speciation and the accumulation of biodiversity in deep time. *Global and Planetary Change*, 148: 242-257. <http://dx.doi.org/10.1016/j.gloplacha.2016.12.008>
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- \*Bauer, J.E., **Stigall, A.L.** 2016. A combined morphometric and phylogenetic revision of the Late Ordovician brachiopod genera *Eochonetes* and *Thaerodonta*. *Journal of Paleontology*, 90(5): 888-909. <http://dx.doi.org/10.1017/jpa.2016.56>
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Associated data: Stigall, Alycia (2014): Lam, A.R. and Stigall, A.L. 2014. Pathways and mechanisms of Late Ordovician (Katian) faunal migrations of Laurentia and Baltica. *Estonian Journal of Earth Sciences*. [figshare. http://dx.doi.org/10.6084/m9.figshare.1194963](http://dx.doi.org/10.6084/m9.figshare.1194963)
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- Stigall, A.L.**, \*Bauer, J.E., \*Brame, H-M.R. 2014. The Digital Atlas of Ordovician Life: Digitizing and mobilizing data for paleontologists and the public. *Estonian Journal of Earth Sciences*, 63(4): 312-316. doi: 10.3176/earth.2014.36
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### **Conference Presentations († indicates invited talk, \*indicates student presenter)**

- Servais, T., Harper, D.A.T., Obut, O.T., Rasmussen, C.M. Ø., **Stigall, A.L.**, Zhang, Y. 2021. The onset of the Great Ordovician Biodiversification Event. *International Geoscience Congress*, New Delhi, India.
- Stigall, A.L.** 2020. The Invasion Hierarchy: quantifying ecological and evolutionary consequences of invasion in the fossil record. *Palaeontological Association Virtual Annual Meeting*, Oxford, UK, December 18, 2020.
- \*Purcell, C.K.Q., **Stigall, A.L.** 2020. How does niche evolution contribute to diversification? A test using ecological niche modelling of Laurentian brachiopods during the Ordovician. *Geological Society of America, Virtual Annual Meeting*, October 30, 2020.
- \*Purcell, C.K.Q., **Stigall, A.L.** 2020. How do ecological niches evolve during Ordovician environmental change? A test using Laurentian brachiopods. *International Geoscience Programme 653–Virtual Annual Meeting*, September 9, 2020.
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- Antionetto, L.S., Park Boush, L. Plotnick, R.E., **Stigall, A.L.** Western United States nonmarine ostracodes during the Eocene-Oligocene transition: the Early Oligocene faunas of southwestern Montana. XXVI Congresso Brasileiro de Paleontologia, Uberlandia, Brazil, October 22, 2019.
- \*Censullo, S.M., **Stigall, A.L.** Did alternating dispersal and vicariance drive biodiversity increase during the Great Ordovician Biodiversification Event? A phylogenetic test using brachiopods. Annual Meeting of the Geological Society of America, Phoenix, AZ, September 22, 2019.
- Cohen, P., **Stigall, A.L.**, Topaz, C.M. A gender analysis of the Paleontological Society: trends, gaps, and a way forward. Annual Meeting of the Geological Society of America, Phoenix, AZ, September 24, 2019.
- \*Forsythe, I.J., **Stigall, A.L.** Delineating species of *Rafinesquina* in the Type Cincinnati (Ordovician): geometric and multivariate morphometric approaches. Annual Meeting of the Geological Society of America, Phoenix, AZ, September 22, 2019.
- †**Stigall, A.L.**, Freeman, R.L., Edwards, C.E., Rasmussen, C.M. Ø. Coordinated biotic and abiotic change during the Great Ordovician Biodiversification Event: Darriwilian assembly of early Paleozoic building blocks. Annual Meeting of the Geological Society of America, Phoenix, AZ, September 22, 2019. (keynote presentation)
- †**Stigall, A.L.** The Invasion Hierarchy: quantifying ecological and evolutionary consequences of invasion in the fossil record. Annual Meeting of the Geological Society of America, Phoenix, AZ, September 24, 2019. (keynote presentation)
- Stigall, A.L.**, Edwards, C.E. Timing the GOBE: coordinated biotic and geochemical changes during the Darriwilian in Laurentia. 11th North American Paleontological Convention, Riverside, CA, June 27, 2019.
- Cohen, P., **Stigall, A.L.** A gender analysis of the Paleontological Society: trends, gaps, and a way forward. 11th North American Paleontological Convention, Riverside, CA, June 23, 2019.
- Park Boush, L.E., Williams, J.W., Bowen, G., Goring, S., Lehnert, K. Noren, A.J., Peters, S.E., Sessa, J.A., **Stigall, A.L.**, Uhen, M. 2018. Big data in paleontology – creating a roadmap for building a data synthesis center for the paleogeosciences. Annual Meeting of the Geological Society of America, Indianapolis, IN, November 4, 2018.
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- †**Stigall, A.L.** New Frontiers in Paleobiogeography: Quantitative approaches to linking evolution, environmental change, and paleogeography. New Frontiers in Palaeogeography and Biogeography, London, UK, September 21, 2018. (keynote presentation)
- †**Stigall, A.L.** Brachiopods as key to evolutionary theory: from foundational systematics and phylogenetics to speciation and biogeography. 8<sup>th</sup> International Brachiopod Congress, Milan, Italy, September 11, 2018. (keynote presentation)
- †**Stigall, A.L.**, Edwards, C.E. Coordinated biotic and geochemical change during the Great Ordovician Biodiversification Event: the view from Laurentia. 5<sup>th</sup> International Paleontological Congress, Paris, France, July 12, 2018. (keynote presentation)
- Stigall, A.L.**, \*Wright, D.F., \*Lam, A.R., \*Bauer, J.E. How is biodiversity produced? Biotic immigration events, speciation, and the accumulation of biodiversity in the fossil record. 5<sup>th</sup> International Paleontological Congress, Paris, France, July 12, 2018.

**Stigall, A.L.** Ephemeral invasions, epiboles, and biotic immigration events: contrasting ecosystem impacts of biotic invasion in the Type Cincinnati Series. Trekking Across the GOBE: from the Cambrian through the Katian. International Geoscience Programme 653–3<sup>rd</sup> Annual Meeting, Athens, Ohio, June 5, 2018.

†**Stigall, A.L.** Exploring biogeography and diversity during the GOBE: methods and concepts. IGCP 653 Workshop: The onset of the Great Ordovician Biodiversification Event, Marrakesh, Morocco, February 13, 2018.

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†**Stigall, A.L.** Ancient invasions: What the fossil record can tell us about the long-term impact of invasive species. Ecological Society of America, Portland, OR, August 10, 2017.

**Stigall, A.L.** Biotic immigration events, speciation, and the accumulation of biodiversity in geologic time. International Biogeography Society 8th Biennial Meeting, Tucson, AZ, USA, January 12, 2017.

**Stigall, A.L.** How is biodiversity produced? Examining the influence of geography, ecology, and evolutionary processes on speciation during the GOBE. Ordovician by the Lakes: International Geoscience Programme 653–Opening Meeting, September 28, 2016.

\*Epa, Y.R., **Stigall, A.L.**, Stevens, N.J. Paleoecology of the Late Oligocene *Lanistes* (Mollusca: Gastropoda) from the Rukwa Rift Basin, Tanzania. Annual Meeting of the Geological Society of America, Denver, CO, September 25, 2016.

\*Perera, S.N. and **Stigall, A.L.** Hierarchical spatial patterns in paleocommunities of the Late Pennsylvanian Ames Limestone. Annual Meeting of the Geological Society of America, Denver, CO, September 25, 2016.

†**Stigall, A.L.**, \*Wright, D.F., \*Lam, A.R., \*Bauer, J.E. Biotic immigration events, speciation, and the accumulation of biodiversity in the fossil record. Annual Meeting of the Geological Society of America, Denver, CO, September 25, 2016.

\*Trubovitz, S. and **Stigall, A.L.** Transformation of brachiopod community structure and morphological trends during the Great Ordovician Biodiversification Event in Oklahoma. Annual Meeting of the Geological Society of America, Denver, CO, September 28, 2016.

†**Stigall, A.L.** Invasions and biodiversity in deep time: Insights for the Anthropocene. Ecological Society of America, Ft. Lauderdale, FL, August 12, 2016.

\*Lam, A.R., Matzke, N.J, **Stigall, A.L.** 2016. Testing Dispersal of Benthic Invertebrates during the Richmondian Invasion using Bayesian and Maximum-Likelihood Analyses. Closing Meeting of IGCP 591, Ghent, Belgium, July 9 2016.

**Stigall, A.L.** and \*Trubovitz, S. 2016. Synchronous signal of GOBE diversification between Laurentia and Baltica. Closing Meeting of IGCP 591, Ghent, Belgium, July 9 2016.

\*Trubovitz, S. and **Stigall, A.L.** Ecological revolution of rhynchonelliform brachiopods during the Great Ordovician Biodiversification Event in the Oklahoma Basin. Closing Meeting of IGCP 591, Ghent, Belgium, July 9 2016.



- †**Stigall, A.L.** Richmondian Strata of the Cincinnati Region: Lessons for the modern world. Cincinnati FOSSIL Miniconference, Cincinnati, Ohio, June 4, 2016.
- Stigall, A.L.** and Dani, D. Using Fossils to Reconstruct Ancient Environments. Science Education Council of Ohio's Ohio Science Institute, Columbus, OH. January 25, 2016.
- Dattilo, B.F., Brett, C.E., Meyer, D.L., Freeman, R.L., Hunda, B.R., Holland, S.M., Stigall, A.L., Deline, B., Sumrall, C.D., Wilson, M.A. Non-academic paleontologists are essential to the survival of paleontology: Lessons from the Cincinnati school. Annual Meeting of the Geological Society of America, Baltimore, MD, November 3, 2015.
- \*Lam, A.R. and **Stigall, A.L.** Applying Bayesian and maximum-likelihood methods to century-old hypotheses: the Late Ordovician Richmondian Invasion. Annual Meeting of the Geological Society of America, Baltimore, MD, November 1, 2015.
- Lieberman, B.S., Hendricks, J.R., **Stigall, A.L.**, Farrell, U.C., Beach, J.H. Digital fossils: There's an app for that. Annual Meeting of the Geological Society of America, Baltimore, MD, November 3, 2015.
- Myers, C.E., Saupe, E.E., **Stigall, A.L.** The use of digital data in paleobiogeographical investigations of macroevolution. Annual Meeting of the Geological Society of America, Baltimore, MD, November 3, 2015.
- Stigall, A.L.**, Wright, D.F., Lam, A.R., Bauer, J.E. Biotic immigration events, speciation, and biodiversity in Ordovician seas of Laurentia. Annual Meeting of the Geological Society of America, Baltimore, MD, November 2, 2015.
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- \*Lam, A.R. and **Stigall, A.L.** Biogeographic origins and dispersal pathways of invasive taxa: the Late Ordovician (Katian) Richmondian Invasion, Cincinnati area, Ohio. 12<sup>th</sup> International Symposium on the Ordovician System. Harrisonburg, VA, June 11, 2015.
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- \*Lam, A.R. and **Stigall, A.L.** Paleobiogeographic analyses of middle to Late Ordovician taxa with implications for continental and regional invasion events. Southeastern Section Meeting Geological Society of America, Chattanooga, TN, March 19, 2015.
- \*Parker, W.G. and **Stigall, A.L.** A taphonomic analysis of exceptionally preserved bivalves from the Late Ordovician of northern Kentucky. Southeastern Section Meeting Geological Society of America, Chattanooga, TN, March 19, 2015.
- † **Stigall, A.L.** Can we still learn new things from Cincinnati fossils? Southeastern Section Meeting Geological Society of America, Chattanooga, TN, March 19, 2015.
- \*Zeszut, Z., Glasgow, M., Henderson, T., Lam, A.R., **Stigall, A.L.** Digital Atlas Of Ordovician Life: from fossil identification to the classroom. Southeastern Section Meeting Geological Society of America, Chattanooga, TN, March 19, 2015.
- † **Stigall, A.L.** and Myers C.M. Paleobiogeography: The importance of fossil data to species biogeography past, present, and future. Seventh International Conference of the International Biogeography Society, Bayreuth, Germany, January 10, 2015.

- \*Bauer, J.E. and **Stigall, A.L.** Phylogenetic paleobiogeography of Late Ordovician Laurentian brachiopods. Annual Meeting of the Geological Society of America, Vancouver, BC, Canada, October 19, 2014.
- \*Bauer, J.E., Lam, A.R., **Stigall, A.L.** Ordovician Atlas of Ancient Life: Developing tools for paleontologists, educators, and the public. Annual Meeting of the Geological Society of America, Vancouver, BC, Canada, October 21, 2014.
- Stigall, A.L.** How do species invasion and environmental change cause niche evolution? Constraining the link using PaleoENM. 4<sup>rd</sup> International Palaeontological Congress, Mendoza, Argentina, September 29, 2014.
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- \*Bauer, J.E. and **Stigall, A.L.** A phylogenetic and paleobiogeographic analysis of the Ordovician brachiopods *Eochonetes* and *Thaerodonta*. IGCP (International Geoscience Programme) Project 591, 4<sup>th</sup> Annual Meeting. Tartu, Estonia, June 14, 2014.
- \*Bauer, J.E., **Stigall, A.L.**, Lam, A.R. Ordovician Atlas of Ancient Life: from fossil identification to the classroom. IGCP (International Geoscience Programme) Project 591, 4<sup>th</sup> Annual Meeting. Tartu, Estonia, June 14, 2014.
- \*Lam, A.R. and **Stigall, A.L.** Parsimony Analysis of Endemicity of Late Ordovician faunal migration: Identifying the invasion pathways and mechanisms of a regional invasion event. IGCP (International Geoscience Programme) Project 591, 4<sup>th</sup> Annual Meeting. Tartu, Estonia, June 14, 2014.
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- \*Bauer, J.E. and **Stigall, A.L.** Evolution and morphological differentiation of Ordovician brachiopods *Eochonetes* and *Thaerodonta*. Annual Meeting of the Geological Society of America, Denver, CO, October 27, 2013.
- \*Brame, H.R., **Stigall, A.L.**, Bauer, J.E. Creating an online invertebrate paleontology museum: turning fossils into digital data. Annual Meeting of the Geological Society of America, Denver, CO, October 28, 2013.
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- † **Stigall, A.L.** and Brame, H.R. Environmental change and niche evolution: Which types of change promote adaptive response? Annual Meeting of the Geological Society of America, Denver, CO, October 27, 2013.
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- † **Stigall, A.L.** Expanding the Role of Biogeography and Niche Evolution in Macroevolutionary Theory. American Association for the Advancement of Science Annual Meeting, Boston, MA, February 17, 2013.
- † **Stigall, A.L.** When and how do species achieve niche stability over long time scales? Sixth International Conference of the International Biogeography Society, Miami, FL, January 12, 2013.
- Stigall, A.L.**, Hembree, D.I., Gierlowski-Kordesch, E.H., Weismiller, H.C. Jurassic Spinicaudata of Namibia: Evidence for the evolution of sexual mating systems. Annual Meeting of the Geological Society of America, Charlotte, NC, November 6, 2012.
- \*Brame, H.R. and **Stigall, A.L.** Are ecological niches stable in geologic time? Analyzing niche stability levels among a diverse set of Late Ordovician taxa. Annual Meeting of the Geological Society of America, Charlotte, NC, November 5, 2012.
- \*Wright, D.F. and **Stigall, A.L.** Using phylogenetic biogeography to link tectonics, speciation, and biotic invasion in Late Ordovician Laurentia. Annual Meeting of the Geological Society of America, Charlotte, NC, November 6, 2012.
- Stigall, A.L.**, Wright, D.F., Brame, H.R. Integrating ecological and evolutionary responses of Late Ordovician brachiopods to environmental change. IGCP (International Geoscience Programme) Project 591, 2<sup>nd</sup> Annual Meeting, Cincinnati, OH, July 24, 2012.
- \*Brame, H.R. and **Stigall, A.L.** Are niche stability levels congruent across clades? An ecological niche modelling test of niche constancy in the Type Cincinnati. North Central Section Meeting of the Geological Society of America, Dayton, OH, April 23, 2012.
- \*Wright, D.F. and **Stigall, A.L.** Paleobiogeography of the Late Ordovician Richmondian Invasion: Inferring source regions from phylogenetic patterns. North Central Section Meeting of the Geological Society of America, Dayton, OH, April 23, 2012.
- \*Wright, D.F. and **Stigall, A.L.** Phylogenetic revision of the Ordovician brachiopod genus *Glyptorthis*. Annual Meeting of the Geological Society of America, Minneapolis, MN, October 10, 2011.
- Stigall, A.L.** Using ecological niche modeling to evaluate niche stability in deep time. Fifth International Conference of the International Biogeography Society, Heraklion, Crete, Greece, January 10, 2011.
- \*Malizia, R.W. and **Stigall, A.L.** Analyzing niche stability in Late Ordovician articulated brachiopods during the Richmondian Invasion. Annual Meeting of the Geological Society of America, Denver, CO, November 1, 2010.
- Stigall, A.L.** Is niche conservatism or niche evolution more common in geologic time? Annual Meeting of the Geological Society of America, Denver, CO, November 2, 2010.

- Stigall, A.L.** Using ecological niche modeling to evaluate niche stability in deep time: Analyzing Late Ordovician brachiopods of Eastern North America across an invasion event. 3<sup>rd</sup> International Palaeontological Congress, London, England. July 2, 2010.
- Hembree, D.I., Mapes, R.H., Rasor, B.E., **Stigall, A.L.**, Goiran, C., deForges, B.R. Taphonomy of modern *Nautilus* (Cephalopoda) in a nearshore, shallow water environment, Lifou (Loyalty Islands). 3<sup>rd</sup> International Palaeontological Congress, London, England, June 30, 2010.
- Stigall, A.L.** Application of niche modeling to analyze biogeographic patterns in Palaeozoic brachiopods: Evaluating niche stability in deep time. 6<sup>th</sup> International Brachiopod Congress, Melbourne, Australia, February 5, 2010.
- Stigall, A.L.** and Walls, B.J. Testing the validity of ecological niche models for paleobiogeographic reconstruction: A case study from the Late Ordovician of the Cincinnati Arch. Annual Meeting of the Geological Society of America, Portland, OR, October 19, 2009.
- \*Swisher, R.E. and **Stigall, A.L.** Phylogenetic analysis of Late Ordovician North American rhynchonellid brachiopod genera *Lepidocyclus*, *Hypsiptycha* and *Hiscobeccus*. Annual Meeting of the Geological Society of America, Portland, OR, October 22, 2009.
- Hembree, D.I., Mapes, R.H., Rasor, R.E., **Stigall, A.L.**, Goiran, C., deForges, B.R. Taphonomy and sedimentology of a modern *Nautilus* deposit in a nearshore environment. Annual Meeting of the Geological Society of America, Portland, OR, October 22, 2009.
- \*Dudei, N.L. and **Stigall, A.L.** Assessing biogeographic response of brachiopod species during the Richmondian (Late Ordovician) Invasion in the Cincinnati Arch using ecological niche modeling. North American Paleontological Conference, Cincinnati, Ohio, June 26, 2009.
- \*Swisher, R.E. and **Stigall, A.L.** Coordinated brachiopod species trends in the Cincinnati Arch following the Late Ordovician Richmondian Invasion, demonstrated through quantitative paleobiogeographic methods. North American Paleontological Conference, Cincinnati, Ohio, June 26, 2009.
- \*Walls, B.J. and **Stigall, A.L.** Utilization of ecological niche modeling methods to assess quantitative paleobiogeographic patterns of Maysvillian (Late Ordovician) brachiopod species of the Cincinnati Arch. North American Paleontological Conference, Cincinnati, Ohio, June 26, 2009.
- † **Stigall, A.L.** The biogeographic impact of species invasions on native brachiopods during the Richmondian Invasion (Late Ordovician, Cincinnati region). North American Paleontological Conference, Cincinnati, Ohio, June 23, 2009.
- \*Maguire, K.C. and **Stigall, A.L.** Ecological niche modeling of equids in the Great Plains during the Miocene. Fourth Biennial Conference of the International Biogeography Society, Merida, Mexico, January 14, 2009.
- \*Maguire, K.C. and **Stigall, A.L.** Predicted distribution of Equines in the Great Plains during the Miocene based on environmental variables. Annual Meeting of the Society of Vertebrate Paleontology, Cleveland, OH, October 17, 2008.
- \*Dudei, N.L. and **Stigall, A.L.** Ecological niche modeling of Richmondian (Late Ordovician) brachiopods in the Cincinnati Arch: Early stages of a biotic invasion. Annual Meeting of the Geological Society of America, Houston, TX, October 7, 2008.
- \*Maguire, K.C. and **Stigall, A.L.** Ecological Niche Modeling of Equids in the Great Plains during the Miocene. Annual Meeting of the Geological Society of America, Houston, TX, October 5, 2008.

- † **Stigall, A.L.** New insight into diversity dynamics from specimen-based studies: Analyzing the Late Devonian speciation crisis. Annual Meeting of the Geological Society of America, Houston, TX, October 9, 2008.
- \*Swisher, R.E. and **Stigall, A.L.** Quantitative paleobiogeographic analysis of habitat tracking patterns in the Cincinnati Arch following the Late Ordovician Richmondian Invasion. Annual Meeting of the Geological Society of America, Houston, TX, October 9, 2008.
- \*Walls, B.J. and **Stigall, A.L.** Paleobiogeography of Cincinnati (Late Ordovician) brachiopod species utilizing ecological niche modeling methods. Annual Meeting of the Geological Society of America, Houston, TX, October 7, 2008.
- † **Stigall, A.L.** Tracking species in space and time: Assessing the relationships between paleobiogeography, paleoecology, and macroevolution. Paleontological Society Short Course: From Evolution to Geobiology: Research Questions Driving Paleontology at the Start of a New Century. Houston, TX, October 4, 2008.
- Stigall, A.L.** Depression of vicariant speciation during the Late Devonian Biodiversity Crisis related to species invasions. Summer Symposium, Paleontological Research Institute, Ithaca, NY, July 24, 2008.
- \*Maguire, K.C. and **Stigall, A.L.** Combining Quantitative Methods in Historical and Ecological Paleobiogeography: A Case Study with Equinae (horses) from the Miocene of North America. Midwest Evolution and Ecology Conference, Athens, OH, March 9, 2008.
- † **Stigall, A.L.** Do invasive species cause extinction?: Comparing invasion events during intervals of Late Ordovician and Late Devonian biotic turnover. Annual Meeting of the Geological Society of America, Denver, CO, October 30, 2007.
- \*Henderson, A., Nadon, G.C., **Stigall, A.L.** Combined biotic and sedimentologic evidence for millennial-scale (6th-order) sea level fluctuations within the Portersville shale (Late Pennsylvanian), Conemaugh Group, Southeastern Ohio. Annual Meeting of the Geological Society of America, Denver, CO, October 28, 2007.
- Hendricks, J.R., Lieberman, B.S., **Stigall, A.L.** Using GIS to study the paleobiogeography and macroevolution of soft-bodied Cambrian arthropods. Annual Meeting of the Geological Society of America, Denver, CO, October 30, 2007.
- \*Maguire, K.C. and **Stigall, A.L.** The effect of climate on the paleobiogeography of the subfamily Equinae during the Miocene and Pliocene in North America. Annual Meeting of the Geological Society of America, Denver, CO, October 28, 2007.
- † **Stigall, A.L.** and Hembree, D. I. Beyond the phylogeny: Using phylogenetically-constrained data to infer biogeographic, evolutionary, and paleoecological patterns. Geological Society of America, North Central & South Central Joint Sectional Meeting, Lawrence, KS, April 12, 2007.
- \*Everman, K.M. and **Stigall, A.L.** Characterizing Jurassic spinicaudatans of Antarctica: Systematic and Paleoecological Implications. Geological Society of America, North Central & South Central Joint Sectional Meeting, Lawrence, KS, April 12, 2007.
- \*Klingensmith, B.C. and **Stigall, A.L.** Analyzing the relationship between sea level, geographic range, and invasion events in Cincinnati (Late Ordovician) brachiopods using GIS. Geological Society of America, North Central & South Central Joint Sectional Meeting, Lawrence, KS, April 12, 2007.
- \*Maguire, K.C. and **Stigall, A.L.** Miocene-Pliocene Paleobiogeography of North American Equinae. Geological Society of America, North Central & South Central Joint Sectional Meeting, Lawrence, KS, April 12, 2007.

- Stigall, A.L.** Depression of vicariant speciation during the Late Devonian Biodiversity Crisis related to species invasions. International Biogeography Society, Third Biennial Meeting, Tenerife, Canary Islands, Spain, January 11, 2007.
- \*Klingensmith, B.C. and **Stigall, A.L.** Paleobiogeography of Cincinnatian (Late Ordovician) brachiopods: Utilizing geographic information systems (GIS) to analyze species response to environmental change. Geological Society of America, Annual Meeting, Philadelphia, PA, October 26, 2006.
- Stigall, A.L.** Faunal dynamics of the Late Devonian biodiversity crisis: A complex interplay of speciation, extinction, and biogeographic change. Geological Society of America, Annual Meeting, Philadelphia, PA, October 24, 2006.
- \*Klingensmith, B.C. and **Stigall, A.L.** GIS-based mapping of brachiopod species ranges in the type Cincinnatian. Geological Society of America, North Central Sectional Meeting, Akron, OH, April 20, 2006.
- Hembree, D.I., Nadon, G.C., **Stigall, A.L.** Linking Middle to Late Pennsylvanian climate change to variations in ichnofauna and pedogenic development in fluvial and lacustrine paleoenvironments of the Appalachian Basin. Geological Society of America, North Central Sectional Meeting, Akron, OH, April 20, 2006.
- † **Stigall, A.L.** Combining GIS and Phylogenetics in Palaeobiogeography: Assessing the role of Invasion events during Mass Extinctions. Palaeogeography and Palaeobiogeography: Biodiversity in Space and Time Meeting, Cambridge, UK, April 11, 2006.
- Stigall Rode, A.L.,** Briggs, D.E.G., Leslie, S.A., Babcock, L.E. Taphonomy of conchostracan-dominated lacustrine deposits in the Kirkpatrick Basalt (Jurassic, Antarctica). Geological Society of America Annual Meeting, Salt Lake City, UT, October 16, 2005.
- † **Stigall Rode, A.L.** The application of GIS to paleobiogeography: Implications for the study of invasions and mass extinctions. Paleontological Society Short Course: Paleobiogeography: Generating New Insights into the Coevolution of the Earth and Its Biota. Salt Lake City, UT, October 15, 2005.
- Stigall Rode, A.L.,** Leslie, S.A., Babcock, L.E. Ontogenetic change in the microstructure of Jurassic conchostracans (Crustacea, Spinicaudata, Cyzicidae) from Antarctica: Implications for conchostracan phylogeny and taxonomy. North American Paleontology Convention, Halifax, NS, June 27, 2005.
- Babcock, L.E., **Rode, A. L.,** Leslie, S.A., Ford, L.A., Polak, K., Becker, L. Microbially mediated precipitation and fossil preservation in the Kirkpatrick Basalt (Jurassic), Antarctica. Geological Society of America Annual Meeting, Denver, CO, November 10, 2004.
- Rode, A.L.** Using environmental niche modeling to assess the role of changing species ranges during the Late Devonian biodiversity crisis: A case study from the Appalachian Basin. Geological Society of America Annual Meeting, Denver, CO, November 10, 2004.
- Babcock, L.E., Hollingsworth, J.S., **Rode, A.L.,** Ford, L.A., Borkow, P.S., Polak, K., Holmer, L.E., Leslie, S.A. Macrofauna from the Poleta Formation (Cambrian) of Nevada: Influences of Sedimentary Conditions, Biodegraders, and Microbial Biofilms on Exceptional Preservation. IX International Conference of the Cambrian Stage Subdivision Working Group, Taebaek, South Korea, September 21, 2004.

**Rode, A.L.** Quantifying ancient invasive species: Implications of Late Devonian paleobiogeography to modern conservation biology. Midwest Symposium of Student Paleontological Research, Madison, WI, March 6, 2004.

† **Rode, A.L.** and Lieberman, B.S. GIS and phylogenetics, a combined approach to understanding biogeographic changes in the Late Devonian. Topical session "Understanding Late Devonian biotic, climatic and oceanographic events: Toward an integrated approach" Geological Society of America Annual Meeting, Seattle, WA, November 4, 2003.

† **Rode, A. L.** Using GIS to integrate species ranges, evolution, and eustasy during the Late Devonian biodiversity crisis. Geological Society of America Annual Meeting, Denver, CO, October 29, 2002.

**Rode, A. L.** and Lieberman, B.S. New Early Cambrian Bradoriida (?Crustacea) from Antarctica: Implications for bradoriid biogeography and evolution. Geological Society of America Annual Meeting, Boston, MA, November 8, 2001.

† **Rode, A.L.** and Lieberman, B.S. Assessing the role of invasive species in mediating mass extinctions: A case study using Devonian phyllocarids. North American Paleontological Conference, Berkeley, CA, June 29, 2001.

**Rode, A.L.** and Lieberman, B.S. Using phylogenetics and GIS to investigate the role in invasive species in the Late Devonian mass extinction. Geological Society of America Annual Meeting, Reno, NV, November 15, 2000.

**Rode, A.L.** and Babcock, L.E. Morphologic and DNA-based phylogeny of the freshwater crayfish and their close relatives. Geological Society of America Annual Meeting, Denver, CO, October 25, 1999.

**Rode, A. L.** Morphologic and DNA-based phylogeny of the freshwater crayfish and their close relatives. Fourth Annual Graduate Student Retreat, University of Kansas, Natural History Museum and Biodiversity Research Center, October 16, 1999.

### **Invited University Colloquia and Public Presentations**

**Stigall, A.L.** 2020. The influence of paleogeography on species invasions, mass extinctions, and biotic radiations: lessons for today from oceans of the past. Harvard University, Earth History and Paleontology Lecture, April 5, 2020. Postponed due to COVID.

**Stigall, A.L.** 2019. The invasion hierarchy: ecological and evolutionary consequences of invasions in the fossil record. American Museum of Natural History, November 18, 2019.

**Stigall, A.L.** 2019. The invasion hierarchy: ecological and evolutionary consequences of invasions in the fossil record. Ohio Center for Ecology and Evolutionary Studies, Ecolunch Series, October 16, 2019.

**Stigall, A.L.** 2019. The influence of paleogeography on species invasions, mass extinctions, and biotic radiations: lessons for today from oceans of the past. University of Oslo, Center for Earth Evolution and Dynamics (CEED), September 12, 2019.

**Stigall, A.L.** 2019. Invasive species, mass extinctions, and biotic radiations: lessons for today from oceans of the past. 2019 Osgood Lecture, College of Wooster, March 2, 2019.

**Stigall, A.L.** 2018. Coordinated biotic and earth systems changes during the Great Ordovician Biodiversification Event: How Middle Ordovician events set the stage for the Cincinnatian. Cincinnati Dry Dredgers, Cincinnati, Ohio, November 16, 2018.

- Stigall, A.L.** 2017. Fossil Invasion! Modeling ancient species niche dynamics to help predict consequences of modern invasive species. Harvard University, Paleobiology Seminar, April 10th, 2017.
- Stigall, A.L.** 2017. Women who rock: Successes and challenges in developing a more diverse geoscience work force. Ohio University Department of Geological Sciences Alumni Symposium, April 8, 2017.
- Stigall, A.L.** 2017. Exploring Antarctica. The Plains Public Library, The Plains, Ohio, February 8, 2017.
- Stigall, A.L.** 2016. Fossil Invasion! Modeling ancient species niche dynamics to help predict consequences of modern invasive species. Ohio University, Department of Physics and Astronomy, Colloquium Series, October 7, 2016.
- Stigall, A.L.** 2016. Anatomy of a biotic invasion: Lessons for the Anthropocene from the Ordovician seas of Ohio. Miami University, Department of Geology and Environmental Earth Science, Colloquium Series, September 9, 2016.
- Stigall, A.L.** 2016. Oceans of Tennessee: opportunities for engaging K-12 students via local geology. University of Tennessee, "Teaching Evolution without Tears" workshop for K-12 educators, February 13, 2016.
- Stigall, A.L.** 2016. Anatomy of an Ordovician invasion: invasive species, speciation, and biodiversity loss. University of Tennessee, Department of Earth and Planetary Sciences, Colloquium Series, February 11, 2016.
- Stigall, A.L.** 2015. Turning into Stone: a tale from life to death to the ultimate fossil. Science Café, Ohio University, Athens, OH, December 2, 2015.
- Stigall, A.L.** 2015. Invasive species, mass extinction, and speciation: How biogeography impacts the history of life. University of Kentucky, Department of Geology, Colloquium Series, October 2, 2015.
- Stigall, A.L.** 2015. Oceans of Ohio: Combining field work, enthusiastic students, and new methods to produce impactful science. Ohio University Department of Geological Sciences Alumni Symposium, April 25, 2015.
- Stigall, A.L.** 2015. Fossil Invasion! How studying ancient species invasion, extinction, and speciation can provide insight to modern ecosystem dynamics. Kent State University, Department of Geology, Colloquium Series, January 23, 2015.
- Stigall, A.L.** 2014. Invasive species, mass extinction, and speciation: How biogeography impacts the history of life. Ohio University, Department of Geological Sciences, Colloquium Series, March 21, 2014.
- Stigall, A.L.** 2014. Invasive species, mass extinction, and speciation: How biogeography impacts the history of life. University of Michigan, Department of Earth and Environmental Sciences, Smith Lecture Series, January 17, 2014.
- Stigall, A.L.** 2014. Applications of niche modeling to the fossil record. University of Michigan, Paleontology Brown Bag series, January 17, 2014.
- Stigall, A.L.** 2013. Fossil Invasion! Studying ancient species to help predict consequences of modern invasive species. Science Café, Ohio University, Athens, OH, November 6, 2013.



- Stigall, A.L.** 2013. Invasive species, mass extinction, and speciation: How biogeography impacts the history of life. University of Illinois at Chicago, Department of Earth and Environmental Sciences, Colloquium Series, September 12, 2013.
- Stigall, A.L.** 2013. Invasive species, niche evolution, and speciation: The importance of biogeography in life history. The Ohio State University School of Geosciences, Earth History Division Brown Bag seminar, April 16, 2013.
- Stigall, A.L.** 2013. Evolution, fossils, and invasive species (Keynote lecture). Paleontological Research Institute and Cornell University's Darwin Days, Ithaca, NY, February 11, 2013.
- Stigall, A.L.** 2012. Tracking species through space and time: The impact of invasive species during the Late Devonian Mass Extinction and the Late Ordovician Richmondian Invasion. University of Wisconsin-Milwaukee, Department of Geosciences Colloquium Series, October 25, 2012.
- Stigall, A.L.** 2012. Refugia and environmental impacts on species ranges in "deep time". PAGES Workshop "Climate Refugia: Joint Inference from Fossils, Genetics, and Models" Eugene, OR, August 1, 2012.
- Stigall, A.L.** 2012. Fossil Invasion! How studying ancient species help us predict the consequences of modern invasive species. Hopewell Culture National Historic Park, Summer Lecture Series, July 12, 2012.
- Stigall, A.L.** 2012. Tracking species through space and time: Paleontological applications of GIS and niche modeling. Ohio University, Department of Geography Colloquium Series, February 10, 2012.
- Stigall, A.L.** 2011. Species stability before and after the Richmondian Invasion: Important insights from Cincinnati brachiopods. Cincinnati Dry Dredgers, Cincinnati, Ohio, October 28, 2011.
- Stigall, A.L.** 2011. Fossil Invasion! How examining ancient species invasions can help understand long-term effects of modern invasive species. Ohio University, Ecolunch Series, May 11, 2011.
- Stigall, A.L.** 2011. Fossil Invasion! How using phylogenetic and ecological niche modeling analyses of ancient species invasions can help predict long-term effects of modern invasive species. Ohio University, Environmental and Plant Biology Colloquium Series, April 22, 2011.
- Stigall, A.L.** 2011. Overturn of the biotics: predicting biodiversity change using fossils. Science Café, Ohio University, Athens, OH, March 30, 2011.
- Stigall, A.L.** 2011. Amazing arthropods of Gondwana. PaleoFest, Burpee Museum of Natural History, Rockford, IL, March 5, 2011.
- Stigall, A.L.** 2011. Brachiopod Invasion! Unraveling biogeographic patterns in Ordovician and Devonian seas by combining GIS and evolutionary analyses. Marshall University, Huntington, WV, January 25, 2011.
- Stigall, A.L.** 2010. Quantitative Paleobiogeography. First International Workshop on Quantitative Paleontology and Stratigraphy. Nanjing Institute of Geology and Paleontology, Chinese Academy of Sciences, July 22, 2010.
- Stigall, A.L.** 2009. Brachiopod Invasion! Unraveling biogeographic patterns in Ordovician and Devonian seas by combining GIS and evolutionary analyses. University of Dayton, Dayton, OH, November 6, 2009.
- Stigall, A.L.** 2009. Tracking species through space and time: The impact of invasive species during the Late Devonian Mass Extinction and Late Ordovician Richmondian Invasion. Kentucky Paleontological Society, Louisville, KY, September 25, 2009.

- Stigall, A.L.** 2008. Combining paleoecology and paleobiogeography to study the Late Devonian Mass Extinction. University of Wooster, Wooster, Ohio, October 23, 2008.
- Stigall, A.L.** 2008. Tracking species through space and time: How species invasions contributed to the Late Devonian Biodiversity Crisis. Cincinnati Dry Dredgers, Cincinnati, Ohio, April 25, 2008.
- Stigall, A.L.** 2008. Using GIS and phylogenetic biogeography to quantify biogeographic patterns in Late Devonian brachiopod and bivalve species invasions over short temporal intervals. Leading Edge of Earth and Planetary Science Lectures, Department of Geology and Geological Engineering, University of North Dakota, April 4, 2008.
- Stigall, A.L.** 2008. Taphonomy of high-latitude Jurassic lake deposits of Antarctica. Leading Edge of Earth and Planetary Science Lectures, Department of Geology and Geological Engineering, University of North Dakota, April 4, 2008.
- Stigall, A.L.** 2008. Tracking species through time: Combining phylogenetics, GIS, and niche modeling to unravel invasive species effects during the Late Devonian Biodiversity Crisis. Department of Geology, Colloquium Series, University of Cincinnati, January 18, 2008.
- Stigall, A.L.** 2007. Life, death, and fossilization in the Jurassic ponds of Antarctica. Athens Public Library, Athens, Ohio, November 15, 2007.
- Stigall, A.L.** 2006. Tracking species through time: Combining phylogenetics, GIS, and niche modeling to unravel invasive species effects during the Late Devonian Biodiversity Crisis. School of Earth Sciences, Colloquium Series, The Ohio State University, November 9, 2006.
- Stigall, A.L.** 2006. Extinction and evolution: Using paleontology to discover clues about ancient life. Women in Science and Engineering Program, Athens, OH, April 26, 2006.
- Stigall, A.L.** 2006. Tracking species through time: Integrating GIS and phylogenetics to examine the effect of species invasions during the Late Devonian Biodiversity Crisis. Department of Geology and Geophysics, Wilbert Lecture Series, Louisiana State University, February 17, 2006.
- Stigall, A.L.** 2005. Comparative taphonomy of fossils from Jurassic ponds of Antarctica: Understanding why these critters are preserved this way. Department of Geological Sciences Colloquium series, Ohio University, October 28, 2005.
- Stigall, A.L.** 2005. Deciphering the role of invasive species during the Late Devonian Mass Extinction: Using GIS to integrate paleobiogeography and paleoecology. Department of Geology Colloquium series, Miami University, Oxford, Ohio, September 21, 2005.
- Stigall Rode, A.L.** 2005. The role of invasive species during the Late Devonian Mass Extinction: Inferences from GIS and niche modeling systems. Department of Biological Sciences Ecolunch Series, Ohio University, February 2, 2005.
- Rode, A.L.** 2004. Fire and Ice: Searching for Jurassic fossils in Antarctica. Association for Women in Geosciences, Osage Chapter, Brown Bag Series, February 20, 2004.
- Rode, A.L.** 2004. Reconstructing Antarctic life: Searching for fossils on the seventh continent. Self Graduate Fellowship Luncheon Series, University of Kansas, February 10, 2004.
- Rode, A.L.** 2004. Integrating GIS and phylogenetics to unravel invasive species effects during the Late Devonian Mass Extinction. Department of Geological Sciences Colloquium series, Ohio University, January 30, 2004.
- Rode, A.L.** 2003. Integrating GIS and phylogenetics to unravel invasive species effects during the Late Devonian Mass Extinction. Department of Ecology and Evolutionary Biology Colloquium series, University of Kansas, September 25, 2003.

**Rode, A.L.** 2003. The Anatomy of a Mass Extinction: What species' ranges can tell us about faunal dynamics in the Late Devonian. Association for Women in Geosciences, Osage Chapter, Brown Bag Series, February 20, 2003.

**Rode, A.L.** 2002. Using GIS to integrate species ranges, evolution, and eustasy during the Late Devonian biodiversity crisis. G-Hawker Symposium, University of Kansas, Department of Geology, Nov. 16, 2002.

**Stigall, A.L.** 1999. Phylogenetic affinities of freshwater crayfish. Denman Undergraduate Research Forum, The Ohio State University, May, 1999.

### **Selection of popular press articles featuring my research**

\*For a list of over 50 articles about my research/contributions published in the College of Arts and Sciences Forum published here: <https://www.ohio-forum.com/topics/alycia-stigall/>

"Unearthing history" March 7, 2019. Ohio University Post.  
[http://projects.thepostathens.com/SpecialProjects/science-edition/unearthing-history.html?fbclid=IwAR2h59wReAkX3ajJugeEU9sFkp\\_gBqKo\\_njM1Zeltv0pHPboqHeMSQRGb4Y](http://projects.thepostathens.com/SpecialProjects/science-edition/unearthing-history.html?fbclid=IwAR2h59wReAkX3ajJugeEU9sFkp_gBqKo_njM1Zeltv0pHPboqHeMSQRGb4Y)

"Paleontologists discovered six new species in the East African Rift" October 29, 2018.  
<https://www.ohio.edu/compass/stories/18-19/10/Six-new-species-discovered.cfm>, *Phys.org*

"Fossils are informing the future of conservation" September 26, 2016. [www.upi.com](http://www.upi.com)

"Fossils Can Help Predict Future Species Survival" September 24, 2016.  
<https://www.geosociety.org/GSA/News/Releases/GSA/News/pr/2016/16-52.aspx>

"What's that fossil?" April 2016. *Perspectives Magazine*, v. 20(1), p. 5. Ohio University, Athens, Ohio.

"Ohio University geologists release app to help people discover fossils." November 10, 2015. *Athens Post*. <http://www.thepostathens.com>

"Free app empowers public to locate, recognize ancient fossils." October 14, 2015 *Phys.org*, *Futurity.org*, *Redorbit.com*

"Adapt or die" May 2014. *Perspectives Magazine*, v. 18(2), p. 16-20. Ohio University, Athens, Ohio.

"America's invasive species—450 million years ago" September 4, 2013. *ZmeScience.com*

"How mountains' rise led species to invade" August 30, 2013. *LiveScience.com*. Coverage by *NBCnews.com*, *Yahoo.com*, *Discovery.com*, *Oregon Herald*

"What the brachiopods from Cincinnati say about tectonic shift" August 26, 2013. *Ohio University Arts and Sciences Forum*. [www.ohio-forum.com](http://www.ohio-forum.com)

"Rising mountains, cooling oceans prompted spread of invasive species 450 million years ago" August 21, 2013 *Ohio University Research communications*. Coverage by *Science360.gov*, *e! Science news.com*, *ScienceCodex.com*, *ScienceDaily.com*, *Science world Report.com*, *Phys.org*.

"How do you have a mass extinction without an increase in extinctions?" June 13, 2013. The Atlantic, <http://www.theatlantic.com/technology/archive/2013/06/how-do-you-have-a-mass-extinction-without-an-increase-in-extinctions/276836/>

Featured in the book "Scatter, Adapt, and Remember: How humans will survive a mass extinction." Annalee Newitz, Doubleday Publishers, New York, 2013.

- “ ‘Why field work rocks’ and other memorable classroom stories” June 2, 2013. *Ohio University Compass*
- “The Dean came to visit and I talked about aquatic apes” Spring 2013. *Ohio Today*, the Ohio University Alumni Magazine
- “Need more paleontological women” February 13, 2013. *Pharyngula*, <http://freethoughtblogs.com/pharyngula/2013/02/13/need-more-paleontological-women/>
- “Charles Darwin: The legacy” February 12, 2013. *Evolution: This view of life*, Online magazine, <http://www.thisviewoflife.com/index.php/magazine/articles/charles-darwin-the-legacy>
- “Did “Invasions” occur in the fossil record?” February 21, 2013. *Evolution: This view of life*, Online magazine, <http://www.thisviewoflife.com/index.php/magazine/articles/did-invasions-occur-in-the-fossil-record>
- “Academic All Stars” Fall 2012. *G-Hawker*, the Alumni Magazine for the University of Kansas Department of Geology
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