

Alycia L. Stigall

Professor

Department of Geological Sciences

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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

- 2015-present Professor, Ohio University, Department of Geological Sciences
- 2009-present Curator of the 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 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
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>).

External Grants Awarded

- 2016-2020 "IGCP 653: 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 OU), 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

- 2015-2017 "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 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

Professional Development Leadership

- 2014, 2015 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.

Honors and Awards

- 2014 Outstanding Faculty Research and Scholarship Award in the Natural Sciences [First time awarded], College of Arts and Sciences, Ohio University
- 2015, 2014, Outstanding Research Award, Department of Geological Sciences, Ohio University
- 2013, 2012, & 2006 Outstanding Teaching Award, Department of Geological 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
- 2009 Outstanding Service Award, Department of Geological 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
- 1999 Research Award for Outstanding Senior Thesis, The Ohio State University Department of Geological Sciences

Professional Societies

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| Geological Society of America | Paleontological Society |
| International Biogeography Society | Society for Sedimentary Geology (SEPM) |
| Palaeontological Association | Ohio Academy of Science |

Professional Service

- 2016-2020 Co-Leader of the International Geosciences Programme (IGCP) Project xxx: The onset of the Great Ordovician Biodiversity Event
- 2015-2018 Paleontological Society Nominating Committee
- 2015 Symposium convener, "Paleobiogeography: The Importance of Fossil Data to Species Biogeography Past, Present, and Future" at the International Biogeography Society 7th Biennial Conference, Bayreuth, Germany
- 2014 Nominating Committee, International Palaeontological Association
- 2013 Chair for technical session, "Biogeography of the Anthropocene" at the 6th Biennial International Biogeography Society Meeting
- 2012-2013 International Biogeography Society, Conference Program and Abstract Committee
- 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
- 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*, *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

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

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| Ranjeev Epa | 2015- | Systematics and phenotypic variation in gastropods and decapods of the Nsungwe Formation (Oligocene, Tanzania) |
| Nilmani Perera | 2015- | Paleoecology and community structure of the Pennsylvanian Ames Limestone |
| Sarah Trubovitz | 2014- | 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 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

James Anderson	2015-	Petrographic comparison of the basal Sandstones of the Simpson Group (Middle Ordovician, Oklahoma), BS Honors 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 Paleocological Implications; BS thesis

Service and Committee Appointments at Ohio University

2015-present	Internal Program Evaluator, Ohio University
2015-present	Professional Development Committee, College of Arts and Sciences
2015-present	Ad hoc Research and Scholarship Committee, College of Arts and Sciences
2015-2016	Faculty Fellowship Leave Committee, Department of Geological Sciences, Chair
2014-present	Advisory Board, Ohio University Museum of Science and Environment
2013-present	Graduate Program Coordinator, Department of Geological 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
2012-2018	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

2014, 2015 Fossil Fest at the Cincinnati Museum Center, presented K-12 teacher workshop and ran demonstration booth
 2014 Guest speaker for National Fossil Day at Morrison-Gordon Elementary School
 2014 Hosted East Elementary School 3rd 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 5th to 8th grade students, Ohio University
 2004-present Guest speaker for elementary and middle school science classrooms in the Athens, Ohio area

Outreach and Professional Websites/Apps Developed

[Digital Atlas of Ancient Life](#), free iOS app for iPhone and iPad. Released September 2015.

Stigall, A.L. 2013-2016. Atlas of Ordovician Life: Exploring the fauna of the Cincinnati Region.
www.ordovicianatlas.org

Hendricks, J.R. Lieberman, B.S., and Stigall, A.L. 2013-2016. The Digital Atlas of Ancient Life. www.digitalatlasofancientlife.org

Stigall, A.L. 2007-2016. Stigall Lab website. www.ohio.edu/people/stigall

Stigall, A.L. 2007-2016. Paleontology at OHIO. www.ohio.edu/paleo

Stigall, A.L. 2016. IGCP 653: the onset of the Great Ordovician Biodiversification Event. www.igcp653.org

Publications

Citation Profiles: *Google Scholar*: http://scholar.google.com/citations?user=NR0mg_UAAAJ&hl=en h-index = 19; i10-index = 29

Scopus: <http://www.scopus.com/authid/detail.url?authorId=15061934800>.h-index = 16.

Books and Edited volumes

Myers, C.E. and Stigall, A.L. 2018 (expected). *PaleoENM: Quantifying the Co-evolution of Earth and Life*. Wiley-Blackwell Publishers.

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 nearing submission:

*Lam, A.R., **Stigall, A.L.** and Matzke, N. Novel application of phylogenetically-informed Bayesian and maximum-likelihood estimators to reconstruct dispersal paths within the Ordovician seas of Laurentia. To be submitted to *Paleobiology*.

Stigall, A.L., Wright, D.F., Lam, A.R., Bauer, J.E. The importance of alternating dispersal and isolation regimes for building biodiversity: A case study from the Ordovician of North America. *Global Change Biology*, invited submission.

Articles in review:

Dawson, M.N., Axmacher, J.C., Beierkuhnlein, C., Blois, J., Bradley, B., Cord, A.F., Dengler, J., He, K.S., Heaney, L.R., Jansson, R., Mahecha, M.D., Myers, C.E., Nogués-Bravo, D., Papadopoulo, A., Reu, B., Rodríguez-Sánchez, F., Steinbauer, M., **Stigall, A.L.**, Tuanmu, M-N., Gavin, D.G. 2015. A second horizon scan of biogeography. *Frontiers in Biogeography*, 7(4).

Stigall, A.L., Plotnick, R.E., Park Boush, L.E. In review. The first Cenozoic spinicaudatans from North America. *Journal of Paleontology*.

Articles published or in press:

*Bauer, J.E., and **Stigall, A.L.** Accepted. A combined morphometric and phylogenetic revision of the Late Ordovician brachiopod genera *Eochonetes* and *Thaerodonta*. *Journal of Paleontology*.

- Stigall, A.L.**, Dani, D.E., Sickel, A.J., and Helfrich, S.A. 2015. Tried and True: Using observations of fossils to reconstruct ancient environments. *Science Scope*, 39(2): 10-16.
- Hendricks, J.R., **Stigall, A.L.**, and Lieberman, B.S. 2015. The Digital Atlas of Ancient Life: delivering information on paleontology and biogeography via the web. *Palaeontologia Electronica* 18.2.3E: 1–9 palaeo-electronica.org/content/2015/1269-commentary-digital-atlas-of-ancient-life
- Gierlowski-Kordesch, E.H., *Weismiller, H.C., **Stigall, A.L.**, and Hembree, D.I. 2015. Pedogenic mud aggregates and sedimentation patterns between basalt flows (Jurassic Kalkrand Formation, Namibia). In Larsen, D., Egenhoff, S.O., and Fishman, N. (eds). *Paying Attention to Mudstones - Priceless!* Geological Society of America, Special Papers, 515: 65-86. doi: 10.1130/2015.2515(04)
- Myers, C.E., **Stigall, A.L.**, and Lieberman, B.S. 2015. PaleoENM: applying ecological niche modeling to the fossil record. *Paleobiology*, 41: 226-244. doi: 10.1017/pab.2014.19
Supplemental materials: <http://dx.doi.org/10.5061/dryad.t4jd0>
- *Lam, A.R., and **Stigall, A.L.** 2015. Pathways and mechanisms of Late Ordovician (Cincinnatian) faunal migrations of Laurentia and Baltica. *Estonian Journal of Earth Sciences*, 64(1): 62-67. doi: 10.3176/earth.2015.11
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>
- *Bauer, J.E., and **Stigall, A.L.** 2014. Phylogenetic paleobiogeography of Late Ordovician Laurentian brachiopods. *Estonian Journal of Earth Sciences*, 63(4): 189-194. doi: 10.3176/earth.2014.17
Associated data: Stigall, Alycia (2014): Bauer, J.E., and Stigall, A.L. 2014. Phylogenetic paleobiogeography of Late Ordovician Laurentian brachiopods. *Estonian Journal of Earth Sciences*. figshare. <http://dx.doi.org/10.6084/m9.figshare.1151584>
- Stigall, A.L.**, *Bauer, J.E., and *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
- Stigall, A.L.** 2014. When and how do species achieve niche stability over long time scales? *Ecography*, 37: 1123-1132. doi: 10.1111/ecog.00719
- Plotnick, R., **Stigall, A.L.**, and *Stefanescu, I. 2014. Evolution of Paleontology: Long-term gender trends in an Earth Science discipline. *GSA Today*, 24(11): 44-45. <http://www.geosociety.org/gsatoday/archive/24/11/article/i1052-5173-24-11-44.htm>
- *Wright, D.F., and **Stigall, A.L.** 2014. Species-level phylogenetic revision of the orthide brachiopod *Glyptorthis* from North America. *Journal of Systematic Palaeontology*, 12: 893-906. doi:10.1080/14772019.2013.839584
- Gavin, D.G., Fitzpatrick, M.C., Gugger, P.F., Heath, K.D., Rodriguez-Sanchez, F., Dobrowski, S.Z., Hampte, A., Hu, F.S., Ashcroft, M.B., Bartlein, P.J., Blois, J.L., Cartstens, B.C., Davis, E.B., de Lafontaine, G., Edwards, M.E., Fernandez, M., Henne, P.D., Herring, E.M., Holden, Z.A., Kong, W-S., Liu, J., Magri, D., Matzke, N.J., McGlone, M.S., Saltré, F., **Stigall, A.L.**, Tsai, Y-H.E., Williams, J.W. 2014. Climate refugia: Using fossils, genetics, and spatial modeling to explain the past and project the future of biodiversity. *New Phytologist*, 204:37-54. doi: 10.1111/nph.12929
- Stigall, A.L.**, and *Brame, H-M.R. 2014. Relating environmental change and species stability in Late Ordovician seas. *GFF: A Scandinavia Journal of Earth Sciences*, 136:249-253. doi:10.1080/11035897.2013.852619
- Stigall, A.L.**, Hembree, D.I., Gierlowski-Kordesch, E.H., and *Weismiller, H.C. 2014. Evidence for a dioecious mating system in Early Jurassic *Hardapestheria maxwelli* gen. et sp. nov. (Crustacea,

Branchiopoda, Spinicaudata) from the Kalkrand Formation of Namibia. *Palaeontology*, 57:127-140. doi: 10.1111/pala.12055

*Brame, H-M.R., and **Stigall, A.L.** 2014. Controls on niche stability in geologic time: Congruent responses to biotic and abiotic environmental changes among Cincinnatian (Late Ordovician) marine invertebrates. *Paleobiology*, 40(1): 70-90. doi:10.1666/13035

*Wright, D.F., and **Stigall, A.L.** 2013. Phylogenetic revision of the Late Ordovician orthid brachiopod genera *Plaesiomys* and *Hebertella* from North America. *Journal of Paleontology*, 87(6):1107-1128. doi:10.1666/12-083

Stigall, A.L. 2013. Analyzing links between biogeography, niche stability, and speciation: The impact of complex feedbacks on macroevolutionary patterns. *Palaeontology*, 56(6):1225-1238. doi: 10.1111/pala.12003

Dawson, M.N., Algar, A.C., Antonelli, A., Dávalos, L.M., David, E., Early, R., Guisan, A., Jansson, R., Lessard, J.-P., Marske, K.A., McGuire, J., **Stigall, A.L.**, Swenson, N.G., Zimmerman, N.E., and Gavin, D.G. 2013. An horizon scan of biogeography. *Frontiers of Biogeography*, 5(2):130-158. <http://www.escholarship.org/uc/item/9rp9c1qk>

*Wright, D.F., and **Stigall, A.L.** 2013. Geologic drivers of Late Ordovician faunal change in Laurentia: investigating links between tectonics, speciation, and biotic invasions. *PLoS One*, 8(7):e68353, doi:10.1371/journal.pone.0068353

Stigall, A.L. 2012. Invasive species and evolution. *Evolution: Education and Outreach*, 5:526-533. doi:10.1007/s12052-012-0410-5

*Walls, B.J., and **Stigall, A.L.** 2012. A field based analysis of the accuracy of niche models applied to the fossil record. *Paleontological Contributions*, 6: 1-12. <http://hdl.handle.net/1808/8950>

Stigall, A.L. 2012. Using ecological niche modeling to evaluate niche stability in deep time. *Journal of Biogeography*, 39: 772-781. doi:10.1111/j.1365-2699.2011.02651.x

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Conference Presentations († indicates invited talk, * indicates student presenter)

- Stigall, A.L.**, Dani, Danielle. 2016. Using Fossils to Reconstruct Ancient Environments. Science Education Council of Ohio's Ohio Science Institute. 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., and **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.
- *Trubovitz, S., **Stigall, A.L.**, and Anderson, J. Reconstructing the Great Ordovician Biodiversification Event through brachiopods of Oklahoma. Annual Meeting of the Geological Society of America, Baltimore, MD, November 2, 2015.
- *Lam, A.R., and **Stigall, A.L.** Biogeographic origins and dispersal pathways of invasive taxa: the Late Ordovician (Katian) Richmondian Invasion, Cincinnati area, Ohio. 12th International Symposium on the Ordovician System. Harrisonburg, VA, June 11, 2015.
- Stigall, A.L.**, Bauer, J.E., Brame, H.-M. R, Lam, A.R., and Wright, D. F. Immigration, speciation, and biodiversity in Ordovician seas of Laurentia. 12th International Symposium on the Ordovician System. Harrisonburg, VA, June 11, 2015.

- *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., and **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., and **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. 4rd International Palaeontological Congress, Mendoza, Argentina, September 29, 2014.
- Stigall, A.L.**, Bauer, J.E., and Lam, A.R. Ordovician Atlas of Ancient Life: A tool for paleontologists and the public. 4rd International Palaeontological Congress, Mendoza, Argentina, September 29, 2014.
- *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, 4th Annual Meeting. Tartu, Estonia, June 14, 2014.
- *Bauer, J.E., **Stigall, A.L.**, and Lam, A.R. Ordovician Atlas of Ancient Life: from fossil identification to the classroom. IGCP (International Geoscience Programme) Project 591, 4th 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, 4th Annual Meeting. Tartu, Estonia, June 14, 2014.
- Stigall, A.L.** 2014. Vicariance versus dispersal: relating biogeography and speciation within late Ordovician (Katian) marine invertebrates of Laurentia. Proceedings of the 4th IGCP 591 Annual Meeting-Tartu, Estonia, June 14, 2014.
- *Bauer, J.E., and **Stigall, A.L.** Evolution and biogeographic patterns of the Late Ordovician brachiopod *Eochonetes clarksvillensis*. Southeastern Section Meeting Geological Society of America, Blacksburg, VA, April 11, 2014.

- *Lam, A.R., and **Stigall, A.L.** Parsimony Analysis of Endemicity (PAE) of a Late Ordovician faunal migration event: where did invasive taxa originate, and how did they get to the Cincinnati Basin? Southeastern Section Meeting Geological Society of America, Blacksburg, VA, April 10, 2014.
- Stigall, A.L.**, Bauer, J.E., Brame, H.-M.R., Lam, A.R., Dani, D.E., Helfrich, S.R., and Sickel, A.J. Oceans of Ohio: opportunities for engaging K-16 students via local geology. Southeastern Section Meeting Geological Society of America, Blacksburg, VA, April 10, 2014.
- *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.** and 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.
- Hendricks, J.R., **Stigall, A.L.**, Portell, R.W., Saupe, E.E., and Lieberman, B.S. Biogeographic responses of mollusk species to Plio-Pleistocene environmental change in the western Atlantic. Annual Meeting of the Geological Society of America, Denver, CO, October 27, 2013.
- [†] Myers, C.M., **Stigall, A.L.**, and Lieberman, B.S. PaleoENM: a valuable quantitative tool for understanding the coevolution of the Earth and life. Annual Meeting of the Geological Society of America, Denver, CO, October 27, 2013.
- [†] **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.
- Stigall, A.L.**, and Brame, H.R. Relating environmental change and species stability in Ordovician seas. IGCP (International Geoscience Programme) Project 591, 3rd Annual Meeting. Lund, Sweden, June 10, 2013.
- [†] **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., and 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, 2nd 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. 3rd International Palaeontological Congress, London, England. July 2, 2010.
- Hembree, D.I., Mapes, R.H., Rasor, B.E., **Stigall, A.L.**, Goiran, C., and deForges, B.R. Taphonomy of modern *Nautilus* (Cephalopoda) in a nearshore, shallow water environment, Lifou (Loyalty Islands). 3rd 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. 6th 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., and 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.
- *Dudej, 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., and **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., and **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 Cincinnatian (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., and **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., and 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., and 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., and 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., and 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. 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. 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.

Popular press articles featuring my research

- "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

“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

“7 signs we are heading for a mass extinction” October 10, 2012. www.io9.com <http://io9.com/5950630/7-signs-we-are-heading-for-a-mass-extinction>

“Associate professor makes connections between past and modern world” June 4, 2012. *Ohio University Compass*. <http://www.ohio.edu/compass/stories/11-12/6/alycia-stigall-2012.cfm>

“NSF Awards Second Round of Grants to Advance Digitization of Biological Collections” May 1, 2012. *National Science Foundation press release*. www.nsf.gov/news

“More than one way for invaders to wreak havoc” February 10, 2012. *SCIENCE Magazine*, v. 333, p. 646.

“Stiff competition” May 2011. *Perspectives Magazine*, v. 15(1), p. 42. Ohio University, Athens, Ohio.

“Invasive species to blame for the Late Devonian Mass Extinction?” April 2011. *Earth Magazine*, p. 14-15 and cover call-out.

Interview of WOUB’s “Newswatch”, evening news broadcast, January 28, 2011

“Driven to extinction?” January 16, 2011 *Columbus Dispatch*

“Schwund der Vielfalt” January 13, 2011 *Deutschlandfunk* (radio program)

“Invasive species could trigger next mass extinction” January 6, 2011 *Voice of America* (radio program) VOAnews.com

“Mystery of Ancient Extinction in Earth's Oceans Revealed” January 4, 2011. www.LiveScience.com

“Invasion slows evolution” January 4, 2011. www.DiscoveryNews.com

“Invasive species tied to extinction” December 30, 2011. www.UPI.com

“Earth’s ancient marine life could reveal what triggers mass extinctions” December, 2010 *Sifi news* www.sify.com

“Man could create new mass extinction” December 30, 2010. *The Telegraph*. www.Telegraph.co.uk

“Invasive species play role in mass extinctions” December 30, 2010. *CBC news*. www.cbc.ca

“Devonian die-off teaches grim lesson” December 30, 2010. *Cosmic log* on www.MSNBC.com

“What triggers mass extinctions? Study shows how invasive species stop new life” December 29, 2010. *National Science Foundation press release*. www.nsf.gov/news

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Plus additional online coverage in: Italy, Portugal, France, Hungary, Germany, Spain, Poland, Czech Republic, Norway, India

“Stimulus program pumps in \$7.1 million to date for faculty research, airport improvements.” June, 2010. *Research Communications*, Ohio University, Athens Ohio.

“The evolution of discovery.” November 2008. *Perspectives Magazine*, Ohio University, Athens, Ohio.

“No bones about it: OSU Antarctica research suggests answer to soft-body fossil mystery.” November 16, 2004. *The Columbus Dispatch*, Columbus, Ohio.

“Soft-shelled crab fossil style.” November, 2004. *Astrobiology Magazine*. <http://www.astrobio.net/news/>.

“Ancient creature fossilized by the bacteria that ate it.” November 10, 2004. *Research News*, Ohio State University, Columbus, Ohio.

“Scientists visit Antarctica: Research team returns to OSU with fossilized arthropods in frozen rocks.” July 29, 2004. *The Lantern*, Ohio State University, Columbus, Ohio.

“Fishing for fossils.” December 28, 2003. *The Antarctic Sun*, McMurdo Station, Antarctica.