

## Curriculum Vitae

### Dr. John Warren Huntley, Assistant Professor

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#### Education

Ph.D. Geosciences	Virginia Polytechnic Institute and State University, 2007 Advisor: Michał Kowalewski
M.S. Geology	University of North Carolina at Wilmington, 2003 Advisor: Patricia H. Kelley
B.S. Geology	Appalachian State University, 2000
German Language School	<i>did</i> Deutsch Institut-München, 2009 Two months of intensive language courses
Marine Biology Field Course	Friday Harbor Laboratories - University of Washington, 2004 Predator-Prey Interactions, Instructors: Michał Kowalewski and Lindsey Leighton
Geology Field Camp	Appalachian State University, 1999 Feltre and San Martino di Castrozza, Italy Instructors: Fred Webb, Jr. and Lucio D'Alberto

#### Professional Employment

2013-present	<i>Assistant Professor</i> Department of Geological Sciences University of Missouri, Columbia, MO
2011-2013	<i>Visiting Assistant Professor</i> Department of Geology St. Lawrence University, Canton, NY
2009-2011	<i>Humboldt Research Fellow</i> GeoZentrum Nordbayern Friedrich-Alexander Universität, Erlangen, Germany
2008-2009	<i>Lecturer</i> Department of Earth and Environmental Sciences University of Kentucky, Lexington, KY
2007-2008	<i>Postdoctoral Associate</i> Department of Geosciences VPI&SU, Blacksburg, VA

## Publications

### Peer-Reviewed Journal Articles and Book Chapters

(#student author; \*corresponding author)

#### In Preparation

- O'Neil, G.R. #, **J.W. Huntley**, Y. Cai, J.D. Schiffbauer\*. In Progress. The importance of biotic interactions in shaping Ediacaran benthic communities.
- Huntley, J.W.\***, J.D. Schiffbauer, T.D. Avila#, J.S. Broce#. In Progress. Live-dead fidelity and spatial averaging of ecophenotypic variation and body size among intertidal bivalves.
- Selly, T.L.#, J.D. Schiffbauer\*, **J.W. Huntley**, A.C. Daley. In Progress. Compositional hyperspace analysis of anomalocaridids to assess the taphonomic role of aluminosilicates in Burgess Shale-type preservation.
- Selly#, T.L., K.E. Hale#, J.D. Schiffbauer, D.A. Clapp#, **J.W. Huntley\***. In Progress. The influence of environmental gradients on molluscan diversity, community structure, body size, and predation in a carbonate tidal creek, San Salvador (The Bahamas).

#### In Review

- Muscente, A.D.\*, J.D. Schiffbauer, J. Broce#, M. Laflamme, K. O'Donnell, T.H. Boag, M. Meyer, A.D. Hawkins, **J.W. Huntley**, M. McNamara, L.A. MacKenzie, G.D. Stanley, Jr., N.W. Hinman, M.H. Hofmann, S. Xiao. Revisions submitted. Exceptionally preserved fossil assemblages and soft tissue preservation through geologic time and space. *Gondwana Research*.
- Scarponi, D., M. Azzarone#, M. Kowalewski, **J.W. Huntley\***. In Review. Surges in trematode prevalence linked to centennial-scale flooding events in the Adriatic. *Scientific Reports*.
- Klompaker, A.A.\*, M. Kowalewski, **J.W. Huntley**, S. Finnegan. In Review. Escalation of predator-prey size ratios throughout the history of marine ecosystems. *Science*.

#### Published

- Schiffbauer, J.D.\*, **J.W. Huntley**, D.A. Fike, M. Jeffrey#, J.M. Gregg, K.L. Shelton. 2017. Decoupling biogeochemical records, extinction, and environmental change in the Cambrian SPICE event. *Science Advances* 3:e1602158.
- Schiffbauer, J.D.\*, **J.W. Huntley**, G.R. O'Neil#, S.A.F. Darroch, M. Laflamme, Y. Cai. 2016. The latest Ediacaran wormworld fauna: Setting the ecological stage for the Cambrian Explosion. *GSA Today* 26(11):4-11.
- Scarponi, D., G. Della Bella, B. Dell'Angelo, **J. W. Huntley**, M. Sosso. 2016. Middle Miocene Conoidea (Mollusca) from western Ukraine (Paratethys): Integrative taxonomy, palaeoclimatological and palaeobiogeographical implications. *Acta Palaeontologica Polonica* 61:327-344.
- Selly, T.L.#, **J.W. Huntley**, K.L. Shelton, J.D. Schiffbauer\*. 2016. Ichnofossil record of selective predation by Cambrian trilobites. *Palaeogeography, Palaeoclimatology, Palaeoecology* 444:28-38.
- Huntley, J.W.**, K. De Baets. 2015. Trace fossil evidence of trematode – bivalve parasite – host interactions in deep time. *Advances in Parasitology* 90:201-231.
- Huntley, J.W.**, D. Scarponi. 2015. Geographic variation of parasitic and predatory traces on mollusks in the northern Adriatic Sea, Italy: Implications for the stratigraphic paleobiology of biotic interactions. *Paleobiology* 41:134-153.
- Huntley, J.W.**, F.T. Fürsich, M. Alberti., M. Hethke, C. Liu. 2014. A complete Holocene record of trematode-bivalve infection and implications for the response of parasitism to climate change. *Proceedings of the National Academy of Sciences* 111:18150-18155. Featured in *Eos* vol. 95, no. 50, 16 December 2014. Featured in *Science* "Editor's Choice" vol. 346, issue 6216, p. 1478; 19 December 2014.
- Scarponi, D., **J.W. Huntley**, L. Capraro, S. Raffi. 2014. Stratigraphic paleoecology of the Valle di Manche Section (Crotona Basin, Italy): A Candidate GSSP of the Middle Pleistocene. *Palaeogeography, Palaeoclimatology, Palaeoecology* 402:30-43.

- Dexter, T.A., D.S. Kaufman, R.A. Krause, Jr., S.L. Barbour, M.G. Simoes, **J.W. Huntley**, Y. Yanes, C.S. Romanek, M. Kowalewski. 2014. A continuous multi-millennial record of surficial bivalve mollusk shells from the São Paulo Bight, Brazilian Shelf. *Quaternary Research* 81:274-283.
- Tyler, C.L., L.R. Leighton, S.J. Carlson, **J.W. Huntley**, M. Kowalewski. 2013. Predation on modern and fossil brachiopods: Assessing chemical defenses and palatability. *Palaios* 28:724-735.
- Ayoub-Hannaa, W., **J.W. Huntley**, F.T. Fürsich. 2013. Significance of Detrended Correspondence Analysis (DCA) in palaeoecology and biostratigraphy: A case study from the Upper Cretaceous of Egypt. *Journal of African Earth Sciences* 80:48-59.
- Huntley, J.W.**, D.S. Kaufman, M. Kowalewski, C.S. Romanek, R.J. Neves. 2012. Sub-centennial resolution amino acid geochronology for the freshwater mussel *Lampsilis* for the last 2000 years. *Quaternary Geochronology* 9:75-85.
- Huntley, J.W.**, D. Scarponi. 2012. Evolutionary and ecological implications of trematode parasitism of modern and fossil northern Adriatic bivalves. *Paleobiology* 38:40-51.
- Huntley, J.W.** 2011. Exploratory multivariate techniques and their utility for understanding ancient ecosystems, p.23-48. M. Laflamme, J.D. Schiffbauer, S.Q. Dornbos (eds.). *Quantifying the evolution of early life: numerical approaches to the evaluation of fossils and ancient ecosystems. Topics in Geobiology*: v. 36, Springer.
- Huntley, J.W.** 2009. Phanerozoic predation intensity and diversity, p.278-281. McGraw-Hill *Yearbook of Science and Technology* 2009.
- Huntley, J.W.**, Y. Yanes, M. Kowalewski, C. Castillo, A. Delgado-Huertas, M. Ibanez, M.R. Alonso, J.E. Ortiz, T. de Torres. 2008. Testing limiting similarity in Quaternary terrestrial gastropods. *Paleobiology* 34(3):378-388. Featured in *Science* "Editor's Choice" vol. 322 issue 5900, p. 348; 17 October 2008.
- Huntley, J.W.**, M. Kowalewski. 2007. Strong coupling of predation intensity and diversity in the Phanerozoic fossil record. *Proceedings of the National Academy of Sciences* 104:15006-15010. Article from the cover. Listed in Faculty of 1000 Biology.
- Huntley, J.W.** 2007. Towards establishing a modern baseline for paleopathology: trace-producing parasites in a bivalve host. *The Journal of Shellfish Research* 26:253-259.
- Huntley, J.W.**, S. Xiao, and M. Kowalewski. 2006. On the morphological history of Proterozoic and Cambrian acritarchs, p. 23-56. S. Xiao and A.J. Kaufman (eds.). *Neoproterozoic Geobiology and Paleobiology, Topics in Geobiology*: v. 27, Springer.
- Huntley, J.W.**, S. Xiao, and M. Kowalewski. 2006. 1.3 billion years of acritarch history: an empirical morphospace approach. *Precambrian Research* 144:52-68.

*Abstracts* \*indicates presenting author, #indicates student abstract

- Scarponi, D.\*, **J.W. Huntley**, et al. 2017. Parasites and Holocene sea-level rise: Recurrent upsurges in trematode infestation linked to repeated flooding events in the Adriatic Sea. EGU General Assembly.
- Scarponi, D.\*, **J.W. Huntley**, M. Azzarone, T. Scirocco. 2016. Repeated association of sea-level rise and trematodes documented in the Holocene Po plain succession (Italy). LAGUNET 2016: Italian Network Congress for the Lagoon Research, Lesina, Foggia, Italy.
- Azzarone, M., **J.W. Huntley**, D. Scarponi, L.C. Linehan#, M. Kowalewski. 2016. Changes in trematode infestation rates across parasequences: Insights from Holocene deposits of the Po coastal plain, Italy. GSA Abstracts with Programs vol. 48, no. 7.
- Jeffrey, M.J.\*#, **J.W. Huntley**, J.D. Schiffbauer, D.A. Fike, K.L. Shelton. 2016. Stratigraphic variation of the SPICE event in upper Cambrian carbonates of southern Missouri. GSA Abstracts with Programs vol. 48, no. 7.
- Klomp maker, A.A.\*, M. Kowalewski, **J.W. Huntley**, S. Finnegan. 2016. Increasing size of drilling predators throughout the history of metazoan ecosystems. GSA Abstracts with Programs vol. 48, no. 7.
- Linehan, L.C.\*#, **J.W. Huntley**. 2016. Parasitism in marine ecosystems through geologic time. GSA Abstracts with Programs vol. 48, no. 7.
- Muscente, A.D.\*, M. Laflamme, J.D. Schiffbauer, J.S. Broce, K.H. O'Donnell, T.H. Boag, M. Meyer, A.D. Hawkins, **J.W. Huntley**, S. Xiao. 2016. Exceptionally preserved fossil assemblages through geologic time and space. GSA Abstracts with Programs vol. 48, no. 7.
- O'Neil, G.R.\*#, J.D. Schiffbauer, **J.W. Huntley**, Y. Cai. 2016. The importance of biotic interactions in shaping Ediacaran benthic communities: A comparative case study of the Gaojiashan and Mistaken Point biotas. GSA Abstracts with Programs vol. 48, no. 7.
- Schiffbauer, J.D.\*#, **J.W. Huntley**, D.A. Fike, M.J. Jeffrey#, J.M. Gregg, K.L. Shelton. 2016. Decoupling excursions, extinctions, and environmental change: The time-transgressive and facies-dependent Cambrian SPICE event. GSA Abstracts with Programs vol. 48, no. 7.

- Selly, T.<sup>#</sup>, K.E. Hale<sup>#</sup>, D.A. Clapp<sup>#</sup>, J.D. Schiffbauer, **J.W. Huntley**<sup>\*</sup>. 2016. Environmental gradients in a tidal carbonate lagoon (Pigeon Creek, San Salvador Island, Bahamas) and their relationship to molluscan diversity, body size, and predator-prey interactions. *GSA Abstracts with Programs* vol. 48, no. 7.
- Selly, T.<sup>##</sup>, J.D. Schiffbauer, **J.W. Huntley**. 2016. Drilling predation and taphonomy of gastropods along environmental gradients, San Salvador, Bahamas. *GSA Abstracts with Programs* vol. 48, no. 5.
- Schiffbauer, J.D.<sup>\*</sup>, K.L. Shelton, **J.W. Huntley**, D.A. Fike, J.M. Gregg. 2016. Recognition of SPICE in the upper Cambrian of southern Missouri: Interaction of local and global carbon factories. Gordon Research Conference – Geobiology: Reconstructing processes from genes to the geologic record. Galveston, TX.
- J.W. Huntley**<sup>\*</sup>, K. De Baets, D. Scarponi. 2015. The trace fossil record of trematode-bivalve parasite-host interactions. *GSA Abstracts with Programs* vol. 47, no. 7.
- Scarponi, D.<sup>\*</sup>, M. Azzarone, **J.W. Huntley**. 2015. Holocene record of trematode-bivalve interaction in regressive back-barrier settings of the Po Plain (Italy). *GSA Abstracts with Programs* vol. 47, no. 7.
- Hale, K.E.<sup>##</sup>, **J.W. Huntley**, D. Scarponi, R.P. Stuart III<sup>#</sup>. 2015. *Tapes philipinarum* as an archive of heavy metal pollution in lagoons of the northern Adriatic coast, Italy: A bivalve sclerochemical approach. *GSA Abstracts with Programs* vol. 47, no. 7.
- O’Neil, G.E.<sup>##</sup>, **J.W. Huntley**, J.D. Schiffbauer. 2015. Evolutionary and ecological implications of body size dynamics of Ediacara organisms. *GSA Abstracts with Programs* vol. 47, no. 7.
- Schiffbauer, J.D.<sup>\*</sup>, K.L. Shelton, **J.W. Huntley**, D.A. Fike, J.M. Gregg. 2015. Recognition of SPICE and other carbon isotope excursions in the Upper Cambrian of southern Missouri: Interaction of local and global carbon factories. *GSA Abstracts with Programs* vol. 47, no. 7.
- Selly, T.<sup>##</sup>, **J.W. Huntley**, K.L. Shelton, J.D. Schiffbauer. 2015. Caught in the act: Ichnofossil record of selective predation by Cambrian trilobites. *GSA Abstracts with Programs* vol. 47, no. 7.
- Scarponi, D.<sup>\*</sup>, L. Angeletti, M. Taviani, **J.W. Huntley**, A. Amorosi, A. Negri, G. B. Vai. 2015. Stratigraphic Paleobiology of the Taranto Area. *Geophysical Research Abstracts*, vol. 17, EGU2015-9275, EGU General Assembly 2015.
- Selly, T.L.<sup>#</sup>, J.D. Schiffbauer, **J.W. Huntley**. 2015. Quantitative taphonomic assessment of *Anomalocaris* from middle Cambrian shales of the southwestern United States. Central States Microscopy and Microanalysis Society Spring Meeting, Columbia, MO, March 2015.
- Schiffbauer, J.D., T. Selly, **J.W. Huntley**, K.L. Shelton. 2015. Trilobite hunting (?) grounds of the Cambrian Davis Formation, southeastern Missouri. *GSA Abstracts with Programs*, vol. 47, no. 2.
- Huntley, J.W.**<sup>\*</sup>, F. T. Fürsich, M. Alberti, M. Hethke, C. Liu. 2014. A complete Holocene record of trematode prevalence from the Pearl River Delta, China: Implications for global change and the future of disease. *GSA Abstracts with Programs*, vol. 46, no. 6.
- Selly, T.<sup>#</sup>, J. D. Schiffbauer, **J. W. Huntley**. 2014. Quantitative taphonomic assessment of *Anomalocaris* from Middle Cambrian shales of the southwestern United States. *GSA Abstracts with Programs*, vol. 46, no. 6.
- Huntley, J.W.**<sup>\*</sup>, D. Scarponi. 2014. Stratigraphic paleobiology of trematode parasites and bivalve hosts. 10<sup>th</sup> North American Paleontological Convention Abstracts. Gainesville, FL.
- Scarponi, D.<sup>\*</sup>, **J.W. Huntley**, L. Capraro. 2014. Stratigraphic paleoecology of the Valle di Manche section (Crotone Basin, Italy): a candidate GSSP of the Middle Pleistocene. 10<sup>th</sup> North American Paleontological Convention Abstracts. Gainesville, FL.
- Huntley, J.W.**<sup>\*</sup>, D. Scarponi, F.T. Fürsich. 2013. Viewing temporal trends of biotic interactions in the light of spatial variation: parasite prevalence in modern northern Adriatic bivalves. *GSA Abstracts with Programs*, vol. 45, no. 7.
- Harris, J.M.<sup>#</sup>, **J.W. Huntley**. 2013. Quantifying ecophenotypic variation and taphonomic bias in the morphology of sub-fossil *Crepidula fornicata* from Cape Cod, Massachusetts, USA. *GSA Abstracts with Programs*, vol. 45, no. 7.
- Dexter, T.A.<sup>\*</sup>, D.S. Kaufman, R.A. Krause, Jr., S.L. Barbour, M.G. Simoes, **J.W. Huntley**, Y. Yanes, C.S. Romanek, M. Kowalewski. 2013. A continuous multi-millennial record of surficial bivalve mollusk shells from the São Paulo Bight, Brazilian Shelf. *GSA Abstracts with Programs*, vol. 45, no. 7.
- Dexter, T.A.<sup>\*</sup>, D.S. Kaufman, R.A. Krause, Jr., C.S. Romanek, Y. Yanes, **J.W. Huntley**, M. Simoes. 2013. Bathymetric variation in time-averaging across a modern shelf. *GSA Abstracts with Programs*, vol. 45, no. 2.
- Huntley, J.W.**<sup>\*</sup>, J.D. Schiffbauer. 2012. Proposed skeletal repair and accretionary growth of an enigmatic Ediacaran organism, Albemarle Group, North Carolina. *GSA Abstracts with Programs*, vol. 44, no. 7.
- Huntley, J.W.**<sup>\*</sup>, D. Scarponi. 2011. Trematode parasitism of modern and fossil northern Adriatic bivalves. *GSA Abstracts with Programs*, vol. 43, no. 5.
- Huntley, J.W.**<sup>\*</sup>, D. Scarponi. 2011. Sequence stratigraphic, evolutionary, and ecological implications of trematode parasitism of Holocene northern Adriatic bivalves. *Geitalia 2011: VIII Forum Italiano di Scienze della Terra*, Torino.
- Kowalewski, M.<sup>\*</sup>, T.A. Dexter, D.S. Kaufman, R.A. Krause, Jr., S.L. Barbour Wood, M.G. Simoes, **J.W. Huntley**, Y. Yanes, C.S. Romanek. 2011. A multi-millennial record provided by amino-acid dated bivalve shells from the southern Brazilian shelf. *GSA Abstracts with Programs*, vol. 43, no. 2.
- Tyler, C.L.<sup>\*</sup>, L.R. Leighton, S.J. Carlson, **J.W. Huntley**, R.A. Krause, Jr., M. Kowalewski. 2010. Brachiopods as acceptable prey: predation on modern and fossil brachiopods. *GSA Abstracts with Programs*, vol. 42, no. 5.
- Huntley, J.W.**<sup>\*</sup>, D. Scarponi. 2010. Evolutionary and ecological implications of trematode parasitism of modern and fossil northern Adriatic bivalves. *Jahrestagung der Paläontologischen Gesellschaft* 2010.
- Huntley, J.W.**<sup>\*</sup> 2009. Organismal interactions in deep time: elucidating the fossil record of parasitism in mollusks. Alexander von Humboldt Stiftung, Abstracts – Netzwerktagung Heidelberg: 24-26 November 2009, p. 40.

- Dexter, T.A.\*, Y. Yanes, **J.W. Huntley**, R.A. Krause, Jr., D.S. Kaufman, C.S. Romanek, M. Kowalewski, M.G. Simoes, S.L. Barbour Wood. 2009. Reconstructing paleo-environmental conditions using the bivalve *Semele casali* from Ubatuba Bay, Brazil. *GSA Abstracts with Programs*, vol. 41, no. 7.
- Tyler, C.L.\*, L.R. Leighton, S.J. Carlson, **J.W. Huntley**, R.A. Krause, Jr., M. Kowalewski. 2009. The well-defended brachiopod: you don't have to taste bad to live well. *GSA Abstracts with Programs*, vol. 41, no. 7.
- Huntley, J.W.\***, Y. Yanes, M. Kowalewski. 2009. Body size distributions as a means to test for the evolutionary importance of competition among terrestrial gastropod species. 9<sup>th</sup> North American Paleontological Convention Abstracts, p. 37-38. Cincinnati, OH.
- Huntley, J.W.\***, R.A. Krause, Jr., C.S. Romanek, D. Kaufman, M. Kowalewski, S. Barbour Wood, M. Simoes. 2008. Upwelling and freshwater runoff events recorded in the Brazilian bivalve *Semele casali*. *GSA Abstracts with Programs*, vol. 40, no. 6.
- Xiao, S.\*, L. Dong, **J.W. Huntley**, B. Shen, M. Kowalewski. 2008. Quantitative analysis of Precambrian fossils. *GSA Abstracts with Programs*, vol. 40, no. 6.
- Kowalewski, M.\* and **J.W. Huntley**. 2008. The Phanerozoic fossil record of predation traces. *Ichnia* 2008.
- Leighton, L.R.\*, **J.W. Huntley**, R.A. Krause, Jr., M. Kowalewski, and S.J. Carlson. 2008. How tasty are brachiopods? Examining predation on a "refugia" taxon. Ecological Society of America, Annual Meeting.
- Huntley, J.W.\***, R.A. Krause, Jr., M. Kowalewski, C.S. Romanek, D.S. Kaufman, M.G. Simoes. 2007. Relating productivity events to Holocene bivalve shell growth rates. *Eos Trans. AGU*, 88 (52), Fall Meet. Suppl., Abstract PP31C-0542.
- Kowalewski, M.\* and **J.W. Huntley**. 2007. The fossil record of predation: a quantitative overview. *GSA Abstracts with Programs*, vol. 39, no. 6.
- Krause, Jr., R.A., **J.W. Huntley\***, M. Kowalewski, C.S. Romanek, D.S. Kaufman, M.G. Simoes. 2007. Assessing environmental factors associated with changes in the growth rate of *Semele casali* through the Holocene. First International Sclerochronology Conference, St. Petersburg, Florida, USA.
- Huntley, J.W.\***, M. Kowalewski. 2007. 550 million years of drilling predation: initial results from a species-level predation database. *GSA Abstracts with Programs*, vol. 39, no. 2.
- Huntley, J.W.\***, Y. Yanes, M. Kowalewski. 2006. A tale of two snails: testing limiting similarity in Quaternary *Theba*. *GSA Abstracts with Programs*, vol. 38, no. 7.
- Xiao, S.\*, L. Dong, **J.W. Huntley**, M. Kowalewski. 2006. Proterozoic evolution of photosynthetic eukaryotes: a primer for Proterozoic evolution of ocean and atmospheric redox state. *GSA Abstracts with Programs*, vol. 38, no. 7.
- Huntley, J.W.\*** 2006. A modern baseline for paleopathology: documenting a diverse trace-producing parasite fauna in live-collected bivalves. *GSA Abstracts with Programs*, vol. 38, no. 3.
- Huntley, J.W.\***, C.S. Romanek, M. Kowalewski, and M.E. Brown. 2005. Variations in the Hg and N content of shells from freshwater mussels exposed to Hg contamination. *GSA Abstracts with Programs*, vol. 37, no.7.
- Huntley, J.W.\***, S. Xiao, and M. Kowalewski. 2004. Trends in body-size and morphological disparity of Proterozoic through middle Cambrian acritarchs: a literature-based approach. *GSA Abstracts with Programs*, vol. 36, no. 5.
- Huntley, J.W.\***, S. Xiao, and M. Kowalewski. 2004. Secular patterns in morphological disparity and body size of acritarchs through the Neoproterozoic and early Cambrian. *GSA Abstracts with Programs*, vol. 36, no. 2.
- Huntley, J.W.\*** and P.H. Kelley. 2003. Evolution of predation-related characters in Miocene through Pleistocene Atlantic coastal plain corbulids and lucinids. *GSA Abstracts with Programs*, vol. 35, no. 1.
- Pierson, J.A.\*, J.W. Huntley, S. Kezios, K. Shafer, and W.B. Harris. 2003. An interactive groundwater model for middle schools. *GSA Abstracts with Programs*, vol. 35, no 1.
- Kelley, P.H., M.A. Crump, **J.W. Huntley\***, H.M. Key, K.A. Nelson, and J.A. Pierson. 2002. Paleocology of the Waccamaw Formation (Pliocene-Pleistocene) near Old Dock, Columbus County, North Carolina. *GSA Abstracts with Programs*, vol. 34, no. 2.

## Teaching Experience

University of Missouri: Principles of Geology (3), Historical Geology (3), Patterns and Processes in the Fossil Record (undergraduate/graduate), Quantitative Paleobiology (2; graduate), Advanced Paleontology (graduate)

St. Lawrence University: Invertebrate Paleontology, Paleoecology, Evolution & Extinction, Dinosaurs, The Evolving Earth, History of Geology in the United Kingdom, The Dynamic Earth Laboratory, and SYE: Biodiversity of Marine Invertebrates in Deep Time

University of Kentucky: Historical Geology, Earthquakes & Volcanoes, Sustainable Planet: The Geology of Natural Resources

Duke University TIP: Geologic Adventures along the Appalachian Trail and Paleontology (summer course at introductory undergraduate level for academically-gifted middle and high school students from diverse socio-economic backgrounds)

Friday Harbor Labs (TA): Predator-Prey Interactions: Experimental and Field Approaches (Graduate-level course)

VPI&SU (TA): Paleontology Laboratory, Earth and Life through Time Laboratory, Physical Geology Laboratory, and Resources Geology (Lecture Assistant)

NSF GK-12 Fellow: Served as resource and mentor for socio-economically diverse middle school students in science class, produced inquiry-based science lessons and activities, aided middle school science teacher with lesson plans and activities for class

UNC-Wilmington (TA): Invertebrate Paleontology Laboratory, Stratigraphy Laboratory, Physical Geology Laboratory, and Physical Geography Laboratory

NC Summer Ventures (TA): Oceanography. Responsibilities: aid academically-gifted high school students from diverse socio-economic backgrounds with research project design and logistics

ASU (TA): Physical Geology Laboratory

### **Graduate Student Advising**

#### *Graduate Advisor*

2016-present Mikaela Ruga (MS)  
2015-present Matthew Jeffrey (MS; co-advised with Kevin Shelton)  
2015-present Liane Linehan (MS)  
2014-2016 Kelly Hale (MS; successfully defended April 19, 2016)

#### *Graduate Committee Member*

2016-present Kate Ferguson (MS), Mizzou Geology  
2015-present Tara Selly (PhD), Mizzou Geology  
2013-present Shannon Haynes (PhD), Mizzou Geology  
2013-present Jesse Broce (PhD), Mizzou Geology  
2015-2016 Page Quinton (PhD), Mizzou Geology  
2014-2016 Gretchen O'Neil (MS), Mizzou Geology  
2013-2015 Tara Selly (MS), Mizzou Geology

#### *PhD Qualifying Exam Committee Member*

2017 Stuart Kenderes (PhD), Mizzou Geology  
2016 George Davis (PhD), Mizzou Geology  
2016 Tara Selly (PhD), Mizzou Geology

### **Undergraduate Student Advising**

#### *McNair Scholar Advisor*

2014-15 Ronald Stuart

#### *Undergraduate Research Advisor*

2015-16 James Smith (co-advised with Jim Schiffbauer)

- 2015-16 Giselle Castaneda-Huerta  
 2014-15 Teresa Avila (co-advised with Jim Schiffbauer)

### Professional Development

- 2013 St. Lawrence University Winter Institute: Visual Ethnography: Teaching and Modeling Ethical Behavior; Implementing the New Diversity Learning Goals; Teaching and Assessing First Year Writing: Challenges and Rewards; Advising for the New Curriculum; Meeting the Environmental Literacy Learning Goals. January 14-15, 2013.
- 2012 On the Cutting Edge - Professional Development for Geoscience Faculty, Early Career Geoscience Faculty: Teaching, Research, and Managing Your Career. College of William and Mary, Williamsburg, VA, June 10-14, 2012.

### Invited Lectures

- 2017 University of Delaware, Department of Geological Sciences (April 27)  
 2017 Missouri University of Science and Technology, Department of Geosciences (March 20)  
 2017 Humboldt Colloquium—Global Research in the 21<sup>st</sup> Century: Perspectives of the U.S. Humboldt Network; Washington D.C, USA (March 2-4)  
 2016 Vanderbilt University, Department of Earth and Environmental Sciences (November 11)  
 2016 Missouri State University, Department of Geography, Geology, and Planning (October 7)  
 2015 University of Missouri, Ecology and Evolutionary Biology (October 21)  
 2014 Friedrich-Alexander-Universität, Fachgruppe Paläoumwelt (June 3)  
 2013 University of Cincinnati, Department of Geology (Nov. 15)  
 2013 American University of Paris, Department of Computer Science, Math, and Science\*  
 2013 St. Lawrence University, Department of Geology\*  
 2013 University of Missouri, Department of Geological Sciences\*  
 2011 St. Lawrence University, Department of Geology  
 2010 Western Carolina University, Department of Geosciences and Natural Resources\*  
 2009 Vanderbilt University, Department of Earth and Environmental Sciences\*  
 2008 University of Kentucky, Rast-Holbrook Lecture Series  
 2008 Mercer University, Department of Earth and Environmental Science\*  
 2008 Bucknell University, Department of Geology\*  
 \*On-campus job interview

### Fellowships, Grants, and Awards

#### External Funding Agencies

##### Pending:

- 2017-2020 **Pending:** NSF EAR – Sedimentary Geology & Paleobiology, *Collaborative Research: Ecological Revolution and Biotic Turnover: Disentangling the Stratigraphic, Taphonomic, and Paleocological Threads of the Ediacaran Cambrian Transition*. Collaborative effort with Emily Smith (Johns Hopkins), Simon A.F. Darroch (Vanderbilt), and James D. Schiffbauer (University of Missouri). \$730,770 Total Project Budget, \$162,796 MU Direct, \$84,089 MU Indirect, PI.

##### Funded:

- 2017-2022 **Funded:** NSF CAREER, NSF EAR – Sedimentary Geology & Paleobiology, *CAREER: Parasites, sea level rise, and ecosystem dynamics: Investigating the pattern and process of increasing trematode prevalence during transgression*, \$522,321. PI Huntley
- 2016 **Funded:** ISA (Istituto di Studi Superiori) Senior Visiting Fellow at the Institute for Advanced Studies, University of Bologna, Italy, *Complex-life cycle parasites and climate change*:

*Elucidating the pattern and process of increasing trematode prevalence and sea level rise over multi-millennial time scales*

2014 **Funded:** Renewed Research Stay Grant, Alexander von Humboldt Stiftung, *The fossil record of trematode parasitism: what do we know and what questions should we be asking?*, €6,300

2009-11 **Funded:** Humboldt Research Fellowship, Alexander von Humboldt Stiftung, Germany, *Documenting Parasite-Host Interactions in Deep Time*, €81,204

*Declined:*

2016-2018 **Declined:** New Directions Grant, Petroleum Research Fund, American Chemical Society, *Testing the temporal and spatial dynamics of a global carbon isotope excursion across a depth gradient: SPICE, mass extinction, and chemostratigraphic correlation in the upper Cambrian*, \$110,000. PI Huntley

2016-2019 **Declined:** NSF EAR – Sedimentary Geology & Paleobiology, *Parasites, climate change, and sea level rise: Investigating the pattern and process of increasing trematode prevalence during transgression*, \$302,301. PI Huntley

2015-2017 **Declined:** U.S.-Egypt Joint Board on Scientific and Technological Cooperation, *Conservation of the Nile-Delta-lakes; response of macrobenthic communities to the environmental deterioration*, \$376,273 (MU share – \$193,353). PI Huntley, Co-PI Abdelhady

2015-18 **Declined:** NSF EAR – Sedimentary Geology & Paleobiology, *Escalation in the Terminal Ediacaran and the death of competition on the sea floor*, \$359,968. PI Schiffbauer, Co-PI Huntley

2015-20 **Declined:** NSF CAREER, NSF EAR – Sedimentary Geology & Paleobiology, *The Origin, Evolution, and Ecological Context of Trematode-Bivalve Parasite-Host Interactions*, \$589,780.

2014-16 **Declined:** Doctoral New Investigator Grant, Petroleum Research Fund, American Chemical Society, *Integrating Trace Fossils and Stratigraphic Paleobiology: Parasitic Traces on Bivalves as Indicators of Water Depth and Sequence Stratigraphic Architecture*, \$110,000

### **Internal University Grants**

*Funded:*

2016 **Funded:** Faculty International Travel Award, Research Council, University of Missouri, *Complex-life cycle parasites and climate change: Elucidating the pattern and process of increasing trematode prevalence and sea level rise over multi-millennial time scales*, \$2,000

2014-15 **Funded:** Summer Research Fellowship and Research Budget, Research Council, University of Missouri, *From clams to climate: utilizing fossil mollusk assemblages from the Apennine Mountains to Resolve Sea Level and Climate Change through Time*, \$14,500

2012-13 **Funded:** Instructional Mini-Grant, St. Lawrence University, *Evolution of benthic marine environments during the Miocene: specimen-based research in the classroom*, \$500

2011-12 **Funded:** Scholarly Development Award (Small Grant), St. Lawrence University, *Investigating the Dawn of Animal Life in the American South*, \$600

2011-12 **Funded:** Instructional Mini-Grant, St. Lawrence University, *Incorporating scholarly research in the classroom: analyzing the ecology and evolution of the shallow marine benthos of northern Florida during the last 2,000,000 years*, \$500

*Declined:*

2016 **Declined:** Richard Wallace Faculty Incentive Grant, Mizzou Alumni Association, *Parasites, climate change, and sea level rise: Why are coastal parasitic flatworms more prevalent during sea level rise?*, \$4,000.

### **Other Honors**

2009 Outstanding Seminar Presentation, Rast-Holbrook Lecture Series, University of Kentucky



2008                    Featured in student research grant highlights for the centennial celebration of the Paleontological Society

### **Department Service**

2015-present        Mizzou Geology: Computing Facility Committee  
2015-present        Mizzou Geology: Graduate Admissions Committee  
2014-present        Mizzou Geology: Colloquium Committee, Chair  
2014-present        Mizzou Geology: Salary Advisory Committee (and Committee on Faculty Responsibility)  
2013-present        Mizzou Geology: Richard P. Frey Memorial Paleontology Fund Committee  
2013-present        Mizzou Geology: Wallace B. Howe Fellowship Committee  
2013-present        Mizzou Geology: Ernest J. Palmer Memorial Scholarship Committee  
2013-present        Mizzou Geology: Carl B. Rexroad Scholarship Committee  
2011-2013            SLU Geology: Academic Advisor (number of advisees: 5)

### **University Service**

2017                    Reviewer for MU Research Board Proposal (April)  
2017                    Campus-level reviewer of MU letters of intent, *NSF Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science* (INCLUDES)  
2017                    Faculty Advisor, CV Docs, Reviewed and advised graduate students on their CV (March 15)  
2016                    Faculty Advisor, CV Docs, Reviewed and advised graduate students on their CV (October 26)  
2016                    Instructor, Evolution Bootcamp, Evolutionary Studies Group (01-12-2016)  
2014-present        University of Missouri, Evolutionary Studies Group, Colloquium Committee  
2012                    St. Lawrence University: Assistant Marshal at Commencement

### **Professional Service**

#### *Professional Society Service*

2015-present        Geobiology & Geomicrobiology Division Representative for the Geological Society of America External Awards Committee  
2014-2016            Paleontological Society Student Grant Review Panel Member

#### *Peer Review*

#### Journals

Acta Palaeontologica Polonica  
Advances in Parasitology  
Bolletino della Societa Paleontologica Italiana  
Evolution  
Geobiology  
Geology  
Journal of Shellfish Research  
Marine Ecology Progress Series  
Palaios  
Paleobiology  
Royal Society Open Science  
Southeastern Geology  
The Science of Nature (Naturwissenschaften)

#### Book Chapters

W. Miller III (ed.). 2007. Trace Fossils: Concepts, Problems, Prospects. Elsevier Science.

M. Laflamme, J.D. Schiffbauer, SQ Dornbos (eds.). 2011. Quantifying the evolution of early life: numerical approaches to the evaluation of fossils and ancient ecosystems. Topics in Geobiology: v. 36, Springer

#### Text Book Proposals

Cambridge University Press

#### Research Grant Proposals

Graduate Women in Science Fellowship (April 2011)

National Science Foundation: Ecological Biology Cluster

National Science Foundation: Sedimentary Geology and Paleobiology

Petroleum Research Fund - New Directions Proposal (February 2015)

#### *Professional Meetings*

- Session convener and chair: Sunday November 1, 2015, The Fossil Record of Parasite-Host Interactions: New Perspectives and Approaches, Annual Meeting of the Geological Society of America, Baltimore, MD, Co-convener and co-chair: Kenneth De Baets
- Session Chair: Friday March 30, 2007, Paleontological Potpourri, Southeast Section Meeting of the Geological Society of America, Savannah, GA, Co-Chair: Anthony J. Martin
- Session Chair: Friday March 26, 2004, Pre-Cenozoic Paleontology, Joint Meeting of the Southeast and Northeast Sections of the Geological Society of America, Tysons Corner, VA, Co-Chair Lisa Berrios

#### *Educational Outreach*

- Career day speaker, March 9, 2017, Kindergarten classes (Mrs. Rhonda Hafner), Parkade Elementary School, Columbia, MO
- Guest speaker, Honors College Science Class, University of Missouri, December 8, 2016. Discussed evolutionary paleoecology.
- Class presentation on fossils at Geological Sciences Building, May 9, 2016, "Dinosaur field trip" for Carousel Playschool.
- Invited speaker, Saturday Morning Science, University of Missouri, February 6, 2016. *Finding meaning in the broken: What fossil shells reveal about past predators and parasites*
- Guest speaker, Honors College Science Class, University of Missouri, December 10, 2015. Discussed evolutionary paleoecology
- Educational Outreach, Dinosaurs and Cavemen 2015, March 14, 2015. Co-arranged two interactive educational displays on Missouri fossils and victims of mass extinction for the Dinosaurs and Cavemen 2015 Science Expo at Rockbridge High School, Columbia, MO. This event is designed for K-12 students and serves hundreds of students.
- Class presentation on fossils at Geological Sciences Building, April 10, 2014, Lee Elementary School, Columbia, MO
- Class presentation on fossils at Geological Sciences Building, April 8, 2014, Lee Elementary School, Columbia, MO
- Class presentation on dinosaurs, February 27, 2014, Dr. Ann Mehr's 3<sup>rd</sup> grade art class, Lee Elementary School, Columbia, MO
- Discussion Leader: Wednesday December 2, 2009, Evolution and the Christian Faith, International Jesus Gemeinde, Erlangen, Germany
- Class presentation on early life, March 9, 2007, Mr. Charles Jarvis' high school biology class, at Department of Geosciences Museum, VPI&SU
- Class presentation on ancient life, Tuesday November 25, 2003, Ms. Susan Briggs' class, North Buncombe Elementary School, Weaverville, NC

### **Professional Organizations**

The Paleontological Society  
The Geological Society of America  
Sigma Xi

### **Collaborators**

Ahmed Awad Abdelhady: Minia University, Egypt  
Matthias Alberti: Christian-Albrechts-Universität zu Kiel, Germany  
Wagih Ayoub-Hannaa: GeoZentrum Nordbayern, Friedrich-Alexander Universität, Germany  
Yao-Ping Cai: Northwest University, China  
Simon A.F. Darroch: Vanderbilt University  
David A. Fike: Washington University in St. Louis  
Claudio De Francesco: CONICET, Universidad Nacional de Mar del Plata, Argentina  
Franz T. Fürsich: GeoZentrum Nordbayern, Friedrich-Alexander Universität, Germany  
W. Burleigh Harris: University of North Carolina at Wilmington  
Manja Hethke: GeoZentrum Nordbayern, Friedrich-Alexander Universität, Germany  
Darrell S. Kaufman: Northern Arizona University  
Patricia H. Kelley (MS Advisor): University of North Carolina at Wilmington  
Michał Kowalewski (Ph.D. Advisor): Florida Museum of Natural History/University of Florida  
Marc Laflamme: University of Toronto Mississauga  
Lindsey Leighton: University of Alberta, Canada  
Chunlian Liu: Sun Yat-sen University, China  
A.D. Muscente: Virginia Polytechnic Institute and State University  
Christopher Romanek: University of Kentucky  
Daniele Scarponi: Università di Bologna, Italy  
James D. Schiffbauer: University of Missouri  
Kevin L. Shelton: University of Missouri  
Shuhai Xiao (Ph.D. Committee Member): Virginia Polytechnic Institute and State University  
Yurena Yanes: University of Cincinnati

### **References**

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Friedrich-Alexander Universität  
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Dr. William A. Thomas (Department Chair during my term as Lecturer)  
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Visiting Scientist, Geological Survey of Alabama  
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Dr. Michał Kowalewski (Ph.D. Advisor)  
Curator and Professor  
Jon L. and Beverly A. Thompson Chair of Invertebrate Paleontology  
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