

David Joseph Peterman
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CURRENT POSITION

Postdoctoral Scholar
Penn State University, State College, PA 2022-Present

EMPLOYMENT/EXPERIENCE

Research Associate, University of Utah, Salt Lake City, UT 2022-Present
[National Science Foundation Postdoctoral Fellow \(#1952756\)](#), University of Utah 2020-2022

EDUCATION

PhD, Earth and Environmental Sciences, Wright State University, Dayton OH 2020
MS, Earth and Environmental Sciences (Geophysics), Wright State University, Dayton OH 2016
BS, Earth and Environmental Sciences, Wright State University, Dayton OH 2014

RESEARCH EXPERIENCE

Penn State University, State College, PA 2022-Present
Postdoctoral Scholar; Mentor: Margaret Byron

Bio-fluid dynamics

- Explored the hydrodynamics of closely spaced, flexible biological surfaces with Ctenophores (comb-jellies) as a model system.

University of Utah, Salt Lake City, UT 2020-2022
Postdoctoral Fellow; Mentor: Kathleen Ritterbush

Integrative functional morphology and evolutionary biomechanics

- Constructed a facility to virtually reconstruct extinct organisms and experiment upon their biomechanics in virtual and physical settings
- Designed 3D motion tracking workflow and submersible camera rigs for physical experiments
- Developed a method to create neutrally buoyant, self-propelling robots to investigate hydrodynamics

Wright State University, Dayton, OH 2017-2020
Graduate Researcher; Advisor: Christopher Barton

Hydrostatics and hydrodynamics of heteromorph ammonoids

- Investigated ammonitic suture patterns with fractal analysis
- Developed new virtual modeling technique to reconstruct animals from fossil remains
- Developed new method to reconstruct animals with neutrally-buoyant, physical models using 3D printing and iterative workflows to replicate 3D mass distributions

Wright State University, Dayton, OH 2017-2020
Graduate Researcher; collaboration with Wright-Patterson Air Force Base

Fractal antenna design and performance

- Developed a workflow to create fractal antennas to evaluate their performance in multiphysics packages.

Wright State University, Dayton, OH

Graduate Researcher; Advisors: Doyle Watts and Ernest Hauser

2014-2016

Seismic reflection imaging and structural geology

- Synthesized the Neoproterozoic deformational history of southwestern Ohio with reprocessed seismic reflection data and well log correlation.

PEER-REVIEWED PUBLICATIONS *ORCID LINK:* <https://orcid.org/0000-0002-6609-8544>

- Peterman, D.J.**, and Ritterbush, K.A. 2022. Resurrecting extinct cephalopods with biomimetic robots to explore hydrodynamic stability, maneuverability, and physical constraints on life habits. *Scientific Reports* 12:11287. <https://doi.org/10.1038/s41598-022-13006-6>.
- Hebdon, N., Polly, D., **Peterman, D.J.**, and Ritterbush, K.A. 2022. Detecting mismatch in functional narratives of animal morphology: a test case with fossils. *Integrative and Comparative Biology*, Forthcoming.
- Hebdon, N., Ritterbush, K.A., Choi, Y., and **Peterman, D.J.** 2022. Reevaluating hydrodynamic performance of Late Triassic–Early Jurassic ammonoid shells with a 1D trajectory model. *Geobios* 71:27–38. <https://doi.org/10.1016/j.geobios.2022.02.002>.
- Peterman, D.J.**, Hebdon, N., and Ritterbush, K. 2022. Twirling torticones: hydrostatics and hydrodynamics of helically-coiled ammonoids. In: Slattery JS, Larson NL, Bingle-Davis M., Graham, FC. eds. Insights into the Cretaceous: Building on the Legacy of William A. Cobban (1916-2015), *American Association of Petroleum Geologists and Wyoming Geological Association Special Volume*, forthcoming. [**Invited Article**]
- Peterman, D.J.**, and Ritterbush, K.A. 2021. Vertical escape tactics and movement potential of orthoconic cephalopods. *PeerJ* 9:e11797. <https://doi.org/10.7717/peerj.11797>.
- Shell, R.C., Zimmerman, K., **Peterman, D.J.**, Ciampaglio, C.N., Fuelling, F., Jacquemin, S.J. 2021. Vertebrate subfossil localities in Taylorsville Metropark, Montgomery County, Ohio, USA. *Ohio Journal of Science* 121(2): 78–89.
- Peterman, D.J.**, Ritterbush, K.A., Ciampaglio, C.N., Johnson, E.H., Inoue, S., Mikami, T., and Linn, T.J. 2021. Buoyancy control in ammonoid cephalopods refined by complex internal shell architecture *Scientific Reports* 11: 8055. <https://doi.org/10.1038/s41598-021-87379-5>.
- Johnson, E.H., DiMarco, B.M., **Peterman, D.J.**, Carter, A.M., and Allmon, W.D. 2021. Did shell-crushing predators drive the evolution of ammonoid septal shape?. *Paleobiology* 47(4): 666–679. <https://doi.org/10.1017/pab.2021.13>.
- Hoffmann, R., Slattery, J., Kruta, I., Linzmeier, B.J., Lemanis, R.E., Mironenko, A., Goolaerts, S., De Baets, K., **Peterman, D.J.**, and Klug, C. 2021. Recent advances in heteromorph ammonoid palaeobiology. *Biological Reviews* 96: 576–610. <https://doi.org/10.1111/brv.12669>.
- Peterman, D.J.**, Mikami, T., and Inoue, S. 2020. The balancing act of *Nipponites mirabilis* (Nostoceratidae, Ammonoidea): managing hydrostatics throughout a complex ontogeny. *PLoS ONE* 15(8): e0235180. <https://doi.org/10.1371/journal.pone.0235180>.
- Peterman, D.J.**, Shell, R.C., Ciampaglio, C.N., and Yacobucci, M.M. 2020. Stable hooks: biomechanics of heteromorph ammonoids with U-shaped body chambers. *Journal of Molluscan Studies* 86(4): 267–279. <https://doi.org/10.1093/mollus/eyaa018>. [**Featured Article**]

8. **Peterman, D.J.**, Hebdon, N., Ciampaglio, C.N., Yacobucci, M.M., Landman, N.H., and Linn, T. 2020. Syn vivo hydrostatic and hydrodynamic properties of scaphitid ammonoids from the U.S. Western Interior. *Geobios* 60:79-98. <https://doi.org/10.1016/j.geobios.2020.04.004>.
7. **Peterman, D.J.**, Yacobucci, M.M., Larson, N.L., Ciampaglio, C.N., and Linn, T. 2020. A method to the madness: ontogenetic changes in the hydrostatic properties of *Didymoceras* (Nostoceratidae, Ammonoidea). *Paleobiology* 46(2):237-258. <http://dx.doi.org/10.1017/pab.2020.14>.
6. **Peterman, D.J.**, Hauser, E.C., and Watts, D.R. 2020. Grenville Foreland Deformation and Sedimentation in Southwest Ohio Indicated by Reprocessed Seismic Reflection Profiles near Middletown, Ohio, USA. *Ohio Journal of Science* 120(2):39-48.
5. Morón-Alfonso, D.A., **Peterman, D.J.**, Cichowolski, M., Hoffmann, R., and Lemanis, R.E. 2020. Virtual 3D modeling of the ammonoid conch to study its hydrostatic properties. *Acta Palaeontologica Polonica* 65(3): 467–480. <https://doi.org/10.4202/app.00776.2020>. [**Editor’s Choice**]
4. Shell, R.C., **Peterman, D.J.**, Ciampaglio, C.N., Armstrong, A.A., and Fuelling, L.J. 2020. A fossil molluscan fauna from the lower Lueders Formation of north-central Texas. *Southeastern Geology* 54(1):1-19.
3. **Peterman, D.J.**, Ciampaglio, C., Shell, R.C., and Yacobucci, M.M. 2019. Mode of life and hydrostatic stability of orthoconic ectocochleate cephalopods: hydrodynamic analyses of restoring moments from 3D-printed, neutrally buoyant models of a baculite. *Acta Palaeontologica Polonica* 64(3):441-460. <https://doi.org/10.4202/app.00595.2019>. [**Editor’s Choice**]
2. **Peterman, D.J.**, Barton, C.C., and Yacobucci, M.M. 2019. The hydrostatics of Paleozoic ectocochleate cephalopods (Nautiloidea and Endoceratoidea) with implications for modes of life and early colonization of the pelagic zone. *Palaeontologia Electronica* 22.2.27A 1-29. <https://doi.org/10.26879/884>.
1. **Peterman, D.J.**, and Barton, C.C. 2019. Power scaling of ammonitic suture patterns from Cretaceous Ancyloceratina: constraints on septal/sutural complexity. *Lethaia* 52: 77-90, doi: 10.1111/let.1229.

MANUSCRIPTS IN REVIEW

20. **Peterman, D.J.**, and Ritterbush, K.A. 2022. Stability-maneuverability tradeoffs provided diverse functional opportunities to shelled cephalopods. *Integrative Organismal Biology*, in review.

FELLOWSHIPS, GRANTS, AND AWARDS

University of Utah, Geology and Geophysics “Earthies” Award		2022
Schuchert and Dunbar Collections Grant – Yale Peabody Museum	(\$1,000)	2022
NSF Earth Sciences Postdoctoral Fellowship (Award #1952756)	(\$174,000)	2020-2022
Paleontological Society invited speaker	(\$500)	2021
WSU Lake Campus Research Grant	(\$500)	2020
AIPG Ohio Student Chapter Award		2020
Benjamin Richard Memorial Fund Grant	(\$1,500)	2019
Columbus Rock and Mineral Society Scholarship	(\$2,000)	2019
Raymond H. and Beryl Dean Penick Memorial Scholarship	(\$9,000)	2019-2020
Graduate Student Excellence Award, Wright State University		2016
Yellow Springs Instruments Scholarship	(\$2,000)	2016
Raymond H. and Beryl Dean Penick Memorial Scholarship	(\$6,000)	2015-2016
Graduate Council Fellowship and Stipend	(\$13,500)	2014-2015
Raymond H. and Beryl Dean Penick Memorial Scholarship	(\$9,000)	2014-2015

TEACHING EXPERIENCE

Wright State University

Instructor (Fall 2019 –)

EES 4010 Geomorphology, Volcanology & Glaciology of Iceland (<i>Pending</i>)	Summer 2023
EES 6010 Atlantic Coast Paleocology	Spring 2020
EES 6190 Paleobiology	Fall 2019
EES 4010 Geology of the Appalachians	Summer 2019

Graduate Teaching Assistant (Fall 2015 – Spring 2019)

EES 4460 Sequence Stratigraphy	EES 7160 Complexity in Environmental Systems
EES 3120 Earth Materials	EES 4010 Modeling Subsurface Fluid Flow
EES 4290 Remote Sensing of Earth	EES 4430 Analysis and Prediction of Complex Systems
EES 4540 Subsurface Fluid Flow	EES 4370 Seismic Reflection Digital Imaging & Processing
EES 4220 Introduction to Geophysics	

Student Mentorship

Master's committee member: Greg Grierson (Wright State University), "Analysis of Amur honeysuckle stem density as a function of spatial clustering, horizontal distance from streams, trails, and elevation in riparian forests, Greene County, Ohio" defended in May 2021.

Undergraduate and graduate student mentorship at the University of Utah (2020-present): Virtual reconstruction, 3D scanning, 3D printing, and physics simulations.

Undergraduate research opportunity program (UROP) mentorship at the University of Utah (2020-present): Theoretical morphology generation, virtual modeling.

ACADEMIC SERVICE

Peer reviewer for: *Proceedings of the National Academy of Sciences, Nature Communications, Paleontological Research, Swiss Journal of Paleontology, Lethaia, GFF, Geosciences, Acta Palaeontologica Polonica, Southeastern Geology, Neues Jahrbuch für Geologie und Paläontologie, Paläontologische Zeitschrift*, and Slattery, J.S., Larson, N.L., and Bingle-Davis, M. (eds.), *Insights into the Cretaceous: Building on the Legacy of William A. Cobban (1916-2015), Wyoming Geological Association Special Volume*.

Keynote speaker: 11th International Symposium on Cephalopods Past and Present (London).

Invited speaker: Yale University (New Haven, CT; 2022), Tate Geological Museum (Casper, WY; 2022), Geological Society of America Annual Meeting (Portland, OR; 2021), University of Washington (Seattle, WA; 2021), Wright State University (Dayton, OH; 2020).

Extinct organism reconstructions for courses at: Yale Peabody Museum, Wright State University, Ohio State University, Oklahoma Baptist University, Daniel Fisk Fossil Museum, University of Utah, Salt Lake Community College, numerous other collections.

MEDIA MENTIONS

Robotics: [University of Utah Newsroom](#); [EurekAlert!](#); [Phys.org](#); [Bioengineer](#); [Science Daily](#); [Sciencemag](#); and others

Functional morphology of ammonite sutures: [University of Utah Newsroom](#); [Gizmodo](#); [EurekAlert!](#); [United Press International \(UPI\)](#); [Florida News Times](#); [Sci Tech Daily](#); [Scienmag](#); [Bioengineer](#); [Science Daily](#); and others.

Virtual and physical hydrostatics / hydrodynamics: [University of Utah Newsroom](#); [Wright State University Newsroom](#); [Forbes](#); [Ars Technica](#); [NSF Research News](#); [EurekAlert!](#); [Clockwise News](#); [Ide Explore](#); [Newsfounded](#); [Pinkers Post](#); [FuentiTech](#); [3DPrint.com](#); and others.

SKILLS

Computational: programming, physics simulations, virtual reconstruction, 3D modeling, morphometrics.

Physical: Robotics, biomimetic model fabrication, 3D printing, and machine maintenance.

Fossil collection, curation, storage, preparation (pneumatic tools, picks, and air abrasives), and preservation.

Field work: 27 states in the USA, England, & Iceland

Software: MATLAB, R, Python, Arduino, ArcGIS, Image editing (Photoshop, Canvas, Illustrator, paint.net), Virtual modeling (Autodesk Meshmixer, Autodesk Netfabb, Blender, MeshLab, MeshRoom, 3DF Zephyr, Artec), 3D printing (Cura, KIS Slicer, Prusa Slicer), Geometric Morphometrics (tpsDig, tpsRelw, tpsUtil, Benoit 1.3, Self-developed Cube Count Code), CT-Scanning (3DSlicer, MicroDicom, Molcer), multiphysics (tracker, DLTdv8, COMSOL, ANSYS, Solidworks).

SELECTED CONFERENCE PRESENTATIONS (*denotes student mentorship)

Peterman, D.J., and Ritterbush, K.A. 2022. Ammonoid cephalopods navigated stability-maneuverability tradeoffs with disparate conch morphologies. *11th International Symposium on Cephalopods Past and Present*. London, England. [**Keynote Speaker**]

*Heberer, M., **Peterman, D.J.**, *Crawford, C., Hebdon, N., Ritterbush, K.A. 2022. Simulation of ammonoid conch hydrodynamics through ontogeny. *11th International Symposium on Cephalopods Past and Present*. London, England.

Ritterbush, K.A., Hebdon, N., **Peterman, D.J.**, Choi, Y., *Heberer, M. 2022. Dynamic frontiers in ammonoid locomotion. *11th International Symposium on Cephalopods Past and Present*. London, England.

*Butler, G., *Heberer, M., Ferrill, T.J., **Peterman, D.J.**, and Ritterbush, K.A. 2022. A surface scanning methodology for accurate, high-resolution digitization of fossils. *Geological Society of America, Abstracts with Programs*.

*Heberer, M., **Peterman, D.J.**, *Crawford, C., Hebdon, N., and Ritterbush, K.A. 2022. Hydrodynamic consequences of the ammonoid conch: shape change through ontogeny. *Geological Society of America, Abstracts with Programs*.

Peterman, D.J., and Ritterbush, K.A. 2022. De-fossilizing ancient cephalopods with computer simulations and biomimetic robots: implications for the biomechanics of modern cephalopods. *Cephalopod International Advisory Council 2022, Sesimbra, Portugal*.

Ritterbush, K.A., Hebdon, N., Choi, Y., and **Peterman, D.J.** 2022. Lifestyles of the species-rich and famous: sleuthing ancient cephalopod-dominated ecosystem shifts with fluid dynamics. *Cephalopod International Advisory Council 2022*.

- Peterman, D.J.**, Hebdon, N., and Ritterbush, K.A. 2022. Resurrecting extinct cephalopods with neutrally buoyant, biomimetic robots and 3D motion tracking. *SICB 2022 Annual Meeting*.
- Peterman, D.J.**, Hebdon, N., and Ritterbush, K.A. 2022. Hydrostatic constraints on life habit: should modern cephalopod analogues be used for extinct morphologies? *SICB 2022 Annual Meeting*.
- *Heberer, M.K., Hebdon, N., **Peterman, D.J.**, Choi, Y., *Crawford, C., *Hoskins, B., and Ritterbush, K.A. 2022. Hydrodynamic consequences of ontogenetic shape gradients in planispiral ammonoids (Paleozoic-Mesozoic cephalopod mollusks). *SICB 2022 Annual Meeting*.
- Hebdon, N., Polly, D., Ritterbush, K.A., **Peterman, D.J.**, and Choi, Y. 2022. How well do our functional hypotheses explain animal morphology? *SICB 2022 Annual Meeting*.
- Ritterbush, K.A., Hebdon, N., Choi, Y., **Peterman, D.J.**, Heberer, M., Hoskins, B.M., and Crawford, C. 2022. Biomechanical study of extinct cephalopods suggests adaptation to transitional laminar-turbulent flow. *SICB 2022 Annual Meeting*.
- Peterman, D.J.** 2021. The adaptive value of heteromorphy in ammonoid cephalopods. *Geological Society of America, Abstracts with Programs*, v. 53, n. 6, doi: 10.1130/abs/2021AM-370014. **[Invited Talk]**
- Peterman, D.J.**, Hebdon, N., Ritterbush, K. 2021. New approaches to study the relationships between functional morphology and morphological trends in ammonoid evolution. *Geological Society of America, Abstracts with Programs*, v. 53, n. 6, doi: 10.1130/abs/2021AM-370128.
- Peterman, D.J.**, Hebdon, N., Ritterbush, K. 2021. Exploring the hydrodynamic consequences of cephalopods in the Westermann Morphospace with neutrally buoyant, 3D-printed robots. *Geological Society of America, Abstracts with Programs*, v. 53, n. 6, doi: 10.1130/abs/2021AM-370199.
- Hebdon, N., Ritterbush, K., Choi, Y., **Peterman, D.J.** 2021. Becoming a winner in just a million years: examining the functional consequences of ammonoids across the end-Triassic. *Geological Society of America, Abstracts with Programs*, v. 53, n. 6, doi: 10.1130/abs/2021AM-370300.
- Ritterbush, K., Hebdon, N., **Peterman, D.J.**, Choi, Y., Hoskins, B., Heberer, M., Crawford, C., Hambleton, J.A. 2021. Did fluid dynamics drive ammonite biodiversity dynamics? *Geological Society of America, Abstracts with Programs*, v. 53, n. 6, doi: 10.1130/abs/2021AM-370678.
- *Crawford, C., Ritterbush, K., **Peterman, D.J.**, Hebdon, N., *Hoskins, B. 2021. Exploring hydrodynamic consequences of ammonite ornamentation and ontogenetic shape change via computational fluid dynamics. *Geological Society of America, Abstracts with Programs*, v. 53, n. 6, doi: 10.1130/abs/2021AM-370302.
- *Hoskins, B., Ritterbush, K., **Peterman, D.J.**, *Crawford, C. Life on the edge: a morphospace evaluation of ancient ammonite hydrodynamics. *Geological Society of America, Abstracts with Programs*, v. 53, n. 6, doi: 10.1130/abs/2021AM-370513.
- Shell, R.C., **Peterman, D.J.** Large Ordovician cephalopods from Michigan's Upper Peninsula. *Geological Society of America, Abstracts with Programs*, v. 53, n. 6, doi: 10.1130/abs/2021AM-369444.
- Peterman, D.J.**, Ritterbush, K.A. 2021. Ectococheate cephalopod hydrostatics are well constrained despite unknown soft body morphologies. *Fourth Annual Rocky Mountain Geobiology Symposium*.
- Peterman, D.J.**, Hebdon, N., Ritterbush, K. 2020. As the whorl turns: rotation mechanisms of torticone ammonoids. *Geological Society of America, Abstracts with Programs*, v. 52, n. 6, doi: 10.1130/abs/2020AM-359195.
- Peterman, D.J.**, Inoue, S., Tomoyuki, M., Ciampaglio, C.N. 2020. Why were ammonite sutures so complex? An investigation of liquid retention in the septal margins of ammonoid shells. *Geological Society of America, Abstracts with Programs*, v. 52, n. 5, doi: 10.1130/abs/2020NC-347070.
- *Mitchell, M.G., Ciampaglio, C.N., **Peterman, D.J.**, Shell, R.C., Fuelling, L.J., Jacquemin, S.J. 2020. Changes in chondrichthyan tooth niche space across the Permian-Triassic boundary. *Geological Society of America, Abstracts with Programs*, v. 52, n. 5, doi: 10.1130/abs/2020NC-346516.

- Shell, R.C., **Peterman, D.J.**, Ciampaglio, C.N. 2020. Additional vertebrates from the Wreford Limestone (Permian: Cisuralian, Sakmarian) of Southern Kansas. *Geological Society of America, Abstracts with Programs*, v. 52, n. 5, doi: 10.1130/abs/2020NC-345715.
- Ritterbush, K.A., Hebdon, N., **Peterman, D.J.**, Choi, Y., Cronin, S. 2020. “Lazing along and frazzling out”: testing Twain’s vision of ammonite ecology. *Geological Society of America, Abstracts with Programs*, v. 52, n. 4, doi: 10.1130/abs/2020CD-347579.
- Peterman, D.J.**, Osborn, A.S., Ciampaglio, C.N. 2020. Echinoid fauna of the lower Pleistocene Waccamaw Formation. *Geological Society of America, Abstracts with Programs*, v. 52, n. 2, doi: 10.1130/abs/2020SE-344641.
- Peterman, D.J.**, Ciampaglio, C.N., and Yacobucci, M. 2019. Stable hooks: effects of the U-shaped body chamber of adult heteromorphic ammonoids on hydrostatic stability and hydrodynamic restoration. *Geological Society of America, Abstracts with Programs* v. 51, n. 5. doi: 10.1130/abs/2019AM-334021.
- Ciampaglio, C.N., Fuelling, L.J., **Peterman, D.J.**, and Clayton, A. 2019. Examination of conodont elements via focus-stacked photography. *Geological Society of America, Abstracts with Programs* v. 51, n. 5, doi: 10.1130/abs/2019AM-339423.
- Peterman, D.J.**, Barton, C., Ciampaglio, C.N., and Yacobucci, M.M. 2019. Sexual dimorphism in scaphitid ammonoids: differences in hydrostatic properties revealed by virtual 3D modeling. *North American Paleontological Conference Program with Abstracts, Paleobios* 36(0).
- Peterman, D.J.**, and Barton, C.C. 2018. Ontogenetic Changes in the Hydrostatic Properties of the Heteromorphic Ammonite, *Didymoceras*. *American Geophysical Union Fall Meeting 2018*, n. PP13F-1402.
- Peterman, D.J.**, and Ciampaglio, C.N. 2018. How stable were orthoconic cephalopods? Hydrodynamic analyses of restoring moments from neutrally buoyant, 3D printed models of ectocochleate cephalopods. *Geological Society of America, Abstracts with Programs* v. 50, n. 6. doi: 10.1130/abs/2018AM-317321.
- Tebbens, S.F., Barton, C.C., Ewing, J., and **Peterman, D.J.** 2018. Fractal Wire Monopole Antennas: Design and Performance. *American Geophysical Union Fall Meeting 2019*, n. NG41B-0941.
- Peterman, D.J.**, Ciampaglio, C.N., and Barton, C.C. 2018. The hydrostatics of Paleozoic orthoconic cephalopods (Nautiloidea) with implications for early colonization of the pelagic zone. *Geological Society of America, Abstracts with Programs* v. 50, n. 4. doi: 10.1130/abs/2018NC-311874
- Hauser, E., **Peterman, D.J.**, Alam, S., Watts, D. 2018. Limestone beneath the Middle Run Formation in the Grenville foreland of SW Ohio and Eastern Indiana. *Geological Society of America, Abstracts with Programs* v. 50, n. 6. doi: 10.1130/abs/2018AM-323701.
- *Hoenig, M., Shell, R., **Peterman, D.J.**, Ciampaglio, C. 2018. Telescoping in a Cephalopod Assemblage from the Maquoketa Formation (Ordovician). *American Geophysical Union Fall Meeting 2018*, n. PP13F-1403. doi: 10.13140/RG.2.2.29845.17127.
- Peterman D.J.**, and Barton, C.C. 2017. Baculite 3D modeling; a new method for computing buoyancy, stability, and orientation with implications for ectocochleate cephalopod hydrostatics. *American Geophysical Union Fall Meeting 2017*, n. PP11D-1063.
- Peterman, D.J.**, Hauser, E., Watts, D., and Parent, A. 2017. Seismic Profiling near Middletown, Ohio: An Interpretation of Pre-Mt. Simon Deformational History in the Eastern Mid-Continent. *Geological Society of America, Abstracts with Programs* v. 49, n. 2. doi: 10.1130/abs/2017NE-290505.
- Peterman, D.J.**, and Barton, C.C. 2016. Power scaling of ammonitic suture patterns from the suborder Ancyloceratina. *American Geophysical Union Fall Meeting 2016*, n. NG21A-1814.