

Jocelyn A. Sessa

Current: Associate Professor, Department of Biodiversity, Earth & Environmental Science & Associate Curator of Invertebrate Paleontology, Academy of Natural Sciences, Drexel University; jsessa@drexel.edu.

Past Positions:

2017-2023 Assistant Professor, Department of Biodiversity, Earth & Environmental Science & Assistant Curator of Invertebrate Paleontology, Academy of Natural Sciences, Drexel University.

2016 to 2017 Senior Scientist in Paleontology & Education, American Museum of Natural History.

Postdoctoral Fellowships:

2012 to 2016 Departments of Paleontology & Education, American Museum of Natural History.

2010 to 2012 Department of Paleobiology, Smithsonian National Museum of Natural History.

2009 to 2010 Department of Earth Sciences, Syracuse University.

Education:

Ph.D., 2009 Department of Geosciences, Pennsylvania State University, University Park, PA.

M.S., 2003 Department of Geology, University of Cincinnati, Cincinnati, Ohio.

B.A., 2000 Department of Geological Sciences, State University of New York at Geneseo, Geneseo, NY. *Cum laude*, minor in Environmental Studies.

Refereed Publications (* indicates student author):

Champlin, L.K., Gannon, M., **Sessa, J.A.**, Watson, E.B. *in review*, Coastal eutrophication revealed by 1500 years of nitrogen isotopes in bivalve shells.

Sessa, J.A., Fraass, A.J., LeVay, L.J., Jamson, K.M.*, Peters, S.E. 2023. The extending Ocean Drilling Pursuits (eODP) Project: Synthesizing Scientific Ocean Drilling Data. *Geochemistry, Geophysics, Geosystems*:24 doi.org/10.1029/2022GC010655.

Oakes, R.L., Davis, C.V., **Sessa, J.A.** 2021. Using the stable isotopic composition of *Heliconoides inflatus* pteropod shells to determine calcification depth in the Cariaco Basin. *Frontiers in Marine Science* 7:1169 doi.org/10.3389/fmars.2020.553104.

Buczek, A.J.*, Hendy, A., Hopkins, M. **Sessa, J.A.** 2021. On the reconciliation of biostratigraphy and strontium isotope stratigraphy of three southern Californian Plio-Pleistocene formations. *Geological Society of America Bulletin* 133:100-114 doi.org/10.1130/B35488.1.

Oakes, R.L., **Sessa, J.A.** 2020. Determining how biotic and abiotic variables affect the shell condition and parameters of *Heliconoides inflatus* pteropods from a sediment trap in the Cariaco Basin. *Biogeosciences* 17:1975–1990; doi.org/10.5194/bg-17-1975-2020.

Oakes, R.L., Hill Chase, M., Siddall, M.E., **Sessa, J.A.** 2020. Testing the impact of two key scan parameters on the quality and repeatability of measurements from CT scan data. *Palaeontologia Electronica* 23(1):a07; doi.org/10.26879/942.

Refereed Publications continued (* indicates student author):

- Ferguson, K.*, MacLeod, K.G., Landman, N.H., **Sessa, J.A.** 2019. Evaluating growth and ecology in Baculitid and Scaphitid ammonites using stable isotope sclerochronology. *Palaios* 34:317-329; doi.org/10.2110/palo.2019.005.
- Ivany, L.C., Pietsch, C., Handley, J.C., Lockwood, R., Allmon, W.D., **Sessa, J.A.** 2018. Little lasting impact of the Paleocene-Eocene Thermal Maximum on shallow marine mollusk faunas. *Science Advances* 4:eaat5528; doi.org/10.1126/sciadv.aat5528.
- O'Leary, M.A., Bouare, M.L., Claeson, K.M., Heilbronn, K., Hill, R.V., McCartney, J., **Sessa, J.A.**, Sissoko, F., Tapanila, L., Wheeler, E., Roberts, E.M. 2019. Stratigraphy and paleobiology of the Upper Cretaceous-Lower Paleogene Trans-Saharan Seaway in Mali. *Bulletin of the American Museum of Natural History* 436: 177p.
- Jardine, P.E., Harrington, G.J., **Sessa, J.A.**, Dašková, J. 2018. Drivers and constraints on floral latitudinal diversification gradients. *Journal of Biogeography* 45:1408-1419; doi.org/10.1111/jbi.13216.
- Self-Trail, J.M., Robinson, M.M., Bralower, T.J., **Sessa, J.A.**, Hajek, E.A., Kump, L.R., Trampush, S.M.*, Willard, D.A., Edwards, L.E., Powars, D.A., Wandless, G.A. 2017. Coastal marine response to global climate change during the Paleocene Eocene Thermal Maximum, Salisbury Embayment. *Paleoceanography* 32:1-19; doi.org/10.1002/2017PA003096.
- Paynter, A.N.*, Metzger, M.J., **Sessa, J.A.**, Siddall, M.E. 2017. Evidence of horizontal transmission of the cancer-associated *Steamer* retrotransposon among ecological cohort bivalve species. *Diseases of Aquatic Organisms* 124:165-168; doi.org/10.3354/dao03113.
- Janssen, A.W., **Sessa, J.A.**, Thomas, E. 2016. Pteropoda (Mollusca, Gastropoda, Thecosomata) from the Paleocene-Eocene Thermal Maximum of the United States Atlantic Coastal Plain. *Palaeontologia Electronica*. 19.3.47A: 1-26; doi.org/10.26879/689.
- Knoll, K.*, Landman, N. H., Cochran, J. K., MacLeod, K. G., **Sessa, J.A.**‡ 2016. Microstructural preservation and the effects of diagenesis on the carbon and oxygen isotope composition of Late Cretaceous aragonitic mollusks from the Gulf Coastal Plain and the Western Interior Seaway. *American Journal of Science* 316:591–613. The issue cover image is from this article.
- Sessa, J.A.**, Larina, E.*, Knoll, K.*, Garb, M. Cochran, J.K., Huber, B.T., MacLeod, K.G., Landman, N.H. 2015. Ammonite habitat revealed via isotopic composition and comparisons with co-occurring benthic and planktonic organisms. *Proceedings of the National Academy of Sciences* 112:15562-15567; http://www.pnas.org/content/112/51/15562.
- Sluijs, A., van Roij, L.*, Harrington, G.J., Schouten, S., **Sessa, J.A.**, Levay, L.J., Reichart, G.J., Slomp, C.P. 2014. Warming, euxinia and sea level rise during the Paleocene-Eocene Thermal Maximum on the Gulf Coastal Plain: implications for ocean oxygenation and nutrient cycling. *Climate of the Past* 10:1421-1439.

Refereed Publications continued:

Sessa, J.A., Callapez, P.M., Dinis, P.A., Hendy, A.J.W. 2013. Paleoenvironmental and paleobiogeographical implications of a Middle Pleistocene mollusc assemblage from the marine terraces of Baía das Pipas, Angola. *Journal of Paleontology* 87:1016-1040.

Sessa, J.A., Ivany, L.C., Schlossnagle, T.H.*, Samson, S.D., Schellenberg, S.A. 2012. The fidelity of oxygen and strontium isotope values from shallow shelf settings: Implications for temperature and age reconstructions. *Palaeogeography, Palaeoclimatology, Palaeoecology* 342-343:27-39.

Sessa, J.A., Patzkowsky, M.E., Bralower, T.J. 2009. Impact of lithification on the diversity, size distribution, and recovery dynamics of marine invertebrate assemblages. *Geology* 337:115-118.

Alroy et al. 2008. Phanerozoic trends in the global diversity of marine invertebrates, *Science* 321: 97–100.

Gibbs, S.J., Bown, P.R., **Sessa, J.A.**, Bralower, T.J., Wilson, P.A. 2006. Nannoplankton origination and extinction across the PETM, *Science* 314:1770-1773.

Funded Projects:

Paleontological Society grant “An Immersive Paleontological and Geoscience Field Experience for Underrepresented Female High School Students” co-PI; \$2,500 awarded May 2023.

NSF Major Research Instrumentation (2216175): MRI: Acquisition of High Power and Resolution X-ray Microscopy System for Advanced Characterization, Non-Destructive Evaluation, and Cross-Disciplinary Research & Innovation. Co-PI; \$1,228,025; Sept 2022-2025.

NSF EarthCube Data Capabilities Collaborative Proposal (1928362): Extending Ocean Drilling Pursuits [eODP]: Microfossils and Stratigraphy. Co-PI; \$369,506; total collaborative award \$944,743; Sept 2019-2024. <https://www.earthcube.org/eodp>

NSF DBI Digitization (1902275): Digitization PEN: Critical Central and South American additions to the EPICC TCN from the oldest Invertebrate Paleontology collection in the United States. Lead PI; \$123,997; Aug 15 2019-July 31 2022.

NSF EarthCube IA (1540902, 1821039): Enhancing Paleontological & Neontological Data Discovery API. I became lead PI 09/2016. Initial award: \$172,303; \$43,333 subaward & \$10,000 EarthRates Workshop Award; total collaborative award: \$799,445. Aug 2015 to Jan 2020.

AGU Celebrate 100 Large Project Support grant “Field experience for minority high school women” Co-PI; \$9,400; awarded February 2019.

EarthRates Workshop award “Bringing Micropaleontology to the Paleobiology Database.” Co-PI; \$15,000, awarded Jan 2018.

Paleontological Society grant “Summer was made for adventure: paleontological and geological field experience for minority high school girls.” Lead PI; \$2,500 awarded April 2018.

Mentorship (bold indicates that I am the primary supervisor):

- 2023-current **Andrew McCoy**, co-supervisor of Drexel masters student who will be researching the evolution of planktic foraminifera in the Cenozoic ocean.
- 2022-current **Maven Mercado**, Drexel undergraduate using computed tomography (CT) to evaluate ocean acidification in the coastal waters of northern Scotland.
- 2019-2023 **Bryce Koester**; I supervised Bryce's masters research on the effects of ocean acidification on the California Bight ecosystem.
- 2017-2020 **Rosie Oakes**; postdoctoral fellow. Rosie and I quantify historic baselines for ocean acidification using pteropods, a group of planktonic mollusks.
- 2016-2021 Co-advised **Alexandra Buczek**, PhD; AMNH, who used mollusks to decipher Neogene climate change; she is lead author on one article.
- 2022-current Committee member for Bitu Soltan Mohammadlou, PhD candidate in College of Engineering. Bitu is researching X-ray micro-computed tomography data processing and computational modeling.
- 2021-current Committee member for Grace Goetcheus; Drexel PhD student, who is studying aging and age-related disease in sauropod dinosaurs.
- 2020-2023 Committee member for Lena Champlin; Drexel PhD student, who is focused on coastal acidification and its effects on ecosystems and biochemical cycling.
- 2020-2023 Committee member for Brittany Wilburn, Drexel PhD student, who is determining the suitability of dredge sediments and biochar for marsh restoration.
- 2020-current Committee member for Karmi Oxman, Drexel PhD student, who is studying social behavior and brain plasticity in a desert isopod.
- 2017-2021 Committee member for Michelle Gannon, PhD, Drexel.
- 2019-2020 **Kelly Rozanitis**; I supervised Kelly's senior undergraduate research at Drexel on climatic evolution during the Cenozoic in Central and South America.
- 2018-current Committee member for Matthew McDonald, Drexel PhD student, who is developing methodologies to date recent land-snail accumulations.
- 2016-2019 Committee member for Katherine Ferguson, University of Missouri Masters student. Kate studied the ecology of ammonites by expanding on my 2015 PNAS paper, resulting in her as lead author on an article.
- 2015- 2016 Ashley Pintar, SUNY Binghamton senior. I co-advised an REU-project on the ecology and phylogeny of a transmissible cancer in extant bivalves, resulting in an article where Ashley is the lead author.
- 2012-2016 **Katja Knoll**; Brooklyn College Masters student. Katja analyzed how shell micro-structure affects the preservation and isotopic composition of mollusk shells, resulting in her as lead author on one article and co-author on another.

Invited Presentations (last 5 years):

- 2024, Winter Integrated Record of Ancient Life workshop at Friedrich-Alexander Universität, Erlangen, Germany.
- 2023, Fall Rowan University, Department of Geology, Invertebrate Paleontology class (third invited presentation to this class).
- 2023, Spring Earth Processes course in American Museum of Natural History's Graduate School.
- 2022, Fall Extinction course in American Museum of Natural History's Graduate School.
- 2022, Sum. Bryn Mawr College Summer Science Research seminar series.
- 2022, Spring University of Delaware, Department of Earth Sciences seminar series.
- 2021, Spring iDigBio Paleo Digitization "Happy Hour" online presentation.
- 2021, Spring Rowan University, Department of Geology, Invertebrate Paleontology class.

Invited Presentations (last 5 years) continued:

- 2020, Spring Temple University, Department of Earth and Environmental Science seminar series.
 2019, Fall UC Santa Cruz, Paleocene Eocene Thermal Maximum Terrestrial & Coastal Climate Workshop.
 2019, Sum. Syracuse University Paleobiology seminar series.
 2019, Spring College of the Atlantic, Seminar series on Climate Change.
 2018, Spring Lafayette College, Department of Geology & Environmental Geosciences.
 2018, Spring University of Pennsylvania, Department of Geology.
 2018, Spring Delaware Valley Paleontological Society.

Instructor Experience:

- 2023, Sum. *Hawaii Field course* – week-long field course for undergraduates, assisted with building course assessments & with field logistics.
 2024, 2023, 2022 *Global Climate Change*; Drexel. Undergraduate online non-majors quarter course, Winter & Spring; 30-75 students. Highly interactive course of group work and student presentations.
 2021 Spring & Sum. *Sedimentology and Stratigraphy*; Drexel. Undergraduate quarter-long course, 4-14 students. Lectures and labs are built around hand samples and activities.
 2022, 2020 & 2018, Fall *Invertebrate Paleontology*; Drexel. Upper-level undergraduate and graduate quarter course, 10-13 students. Paleobiology and paleoecology activities; group work, student presentations, & outside expert speakers.
 2017, 2019, & 2021 Fall *Earth Evolution and Earth Processes*; AMNH. Graduate-level semester-long course, 13 students. Process and cycle-based labs and lectures emphasizing linkages amongst the geosphere, hydrosphere, atmosphere, and biosphere.
 2016, Fall *Practicum*; AMNH. Graduate-level eight-week field and research course, 15-17 students. I created and conducted fieldtrips, field exercises, labs and lectures, and designed and supervised research projects for five masters students/year.
 2013-2016, Summer

Departmental-Institutional Service (last 5 years):

- 2023, Sum.-current Member of the Academy Biodiversity Data Group, formed to implement the - recommendations made by the Academy DEPT (see below).
 2023, Sum. Velay Fellows faculty panelist; program supports young women in STEM.
 2023, Spring-current Assisting with upcoming Academy exhibit on the Devonian time period; entails meeting with exhibits staff, serving as content expert, providing specimens and text for exhibit.
 2023, Spring-Sum. Member of the BEES Department Head selection committee.
 2023, Spring-Sum. Member of the Academy Digital Enterprise Project Team (DEPT), to determine how digital data are managed; biweekly meetings of 2 hrs. I solely coordinated virtual and on-site meetings among an external consultant, 9 Academy collections departments, and the collection group as a whole; met with various collections and Academy management staff; assisted with data collection, report write-ups, and presentations.
 2023, Spring Member of BEES Department McLean Graduate Award Committee.
 2023, Winter Co-organized visit for Nina Henderson Provost scholars coordinated and hosted an evening of behind-the-scenes tours, dinner, and discussion.
 2022, Fall-current Member of Geosciences curriculum restructuring committee.
 2022, Winter Coordinated visit for new dean of College of Arts & Sciences to the Academy.

Departmental-Institutional Service (last 5 years) continued:

2022, Fall	Coordinated visit for candidate for Academy VP of Collections & Research.
2022, Summer	Panelist for Drexel's Women in STEM night for confirmed first year students.
2022, Spring	Member of the BEES Teaching Faculty Promotion Committee.
2021, Fall	Co-led & organized an in-person event for minority STEM students on creating networks in college; worked with event planners, faculty, staff, & students.
2021, Fall	Panelist for Drexel's and Academy's joint Board of Trustees meeting; my research and mentorship of students was highlighted in a professionally-produced video requiring numerous preparatory meetings with Development team and students.
2021, Fall	Member of BEES Departmental Administrator search committee.
2020-current	Advisory Board member of Drexel University's Louis Stokes Alliance for Minority Participation (Drexel-LSAMP) program.
2020-current	Udall Scholarship Campus Committee member.
2020, Winter	Member of the BEES Department Head Review Committee.
2020, Fall	Presented at Back to school: Inside Out, a look behind-the-scenes at research at the Academy of Natural Sciences.
2020, Fall	Judge for College of Arts and Sciences (CoAS) Research Day.
2020, Fall	Faculty mentor for one student presenter for CoAS Research Day; student placed third in the Undergraduate Student Research Humanities and Social Sciences section for her poster entitled "Mexico, Henry Pilsbry, and Archives: Understanding the Connection Between History and Science."
2019-current	Blue/Gold Fellowship Selection Committee (university-wide).
2018-2020	Member of the Academy of Natural Science's Research Charter Committee.

Service to the Professional Community (last 5 years):

Fall 2021	Co-convener of the day-long session entitled 'Stratigraphy, Stasis, and Shales: A Celebration of the Careers of Carlton Brett and Gordon Baird' at the Geological Society of America annual meeting.
2019-2021	Member of the Paleontological Society Harrell L. Strimple Award Committee.
2018-2022	Member of the Biodiversity Literacy in Undergraduate Education (BLUE) project, focused on developing core competencies and students who work with collections and collection-based data; key author on the group's BioScience Viewpoint article.
May 2018	Co-leader of Earth Life Consortium, ePANDDA, & EarthRates Demo Derby, at UW, Madison, a workshop focused on training users to harness paleobiodiversity databases for research, teaching, & public engagement.
Sept 2017	Hosted a 3-day biodiversity "hackathon" at the Academy.
2017-2021	Working group member of NSF-funded project, EarthRates, on the future of paleogeoscience; submitted a mid-scale infrastructure NSF RFI, a white paper to the NSF's Division of Earth Sciences, full NSF proposals in 2019 & 2020, a 2019 Cyberinfrastructure DCL; and a 4-session workshop in 2021. Reviewer for the journals: <i>Science Advances</i> ; <i>Proceedings of the National Academy of Sciences</i> ; <i>Proceedings of The Academy of Natural Sciences of Philadelphia</i> ; <i>Palaios</i> ; <i>Lethaia</i> ; <i>Marine Micropaleontology</i> ; <i>Terra Nova</i> . NSF ad hoc (3x) and panelist proposal reviewer (3x) Deutsche Forschungsgemeinschaft (German Research Foundation) (2x).

Outreach (last 5 years):

- 2024, Winter Co-organized and was a panel moderator for Louis Stokes Alliance for Minority Participation (LSAMP) BIPoC Summit, Saturday, Feb 24th, 2024.
- 2023, Summer Scientific expert for 2 days of the Lacawac, PA DESLA field course.
- 2023, Summer Scientific expert for 3 days of the Lacawac, PA Academy Adventure Camp.
- 2023, Summer Worked with writer for Drexel Magazine’s piece about LSAMP students entitled “The Path to Academic ‘Awards Season’ for Student Success.”
<https://drexel.edu/news/archive/2023/September/drexel-LSAMP-awards>
- 2023, Spring Co-organizer of evening event for the Academy’s Women in Natural Sciences (WINS) program; my lab and I created interactive activities focused on current research, collections improvement, local fossils, and standout specimens, and gave collection tours.
- 2021, Fall Worked with writer for Drexel’s alumni magazine on a piece entitled “A Decade in Review” celebrating the 10-yr anniversary of Drexel-Academy merger; highlights my and LSAMP’s partnership.
<https://drexelmagazine.org/2021/a-decade-of-drexel-and-the-academy/>
- 2021, Summer Led & organized four in-person Academy summer camp experiences for elementary-age students; two on fossil insects and two on fossil invertebrates.
- 2021, Summer Coordinated the use of a large slab of trilobites for the Drexel Treasures Exhibit at the Paul Peck Center, which remained on display until January 2023.
- 2021, Spring & Summer Content advisor for Academy’s inaugural exhibition of the Spotlight Gallery, “Sea Change: How Shelled Pteropods reveal Ocean Acidification”.
- 2021, Spring Interviewed and featured in Academy’s Women’s History Month Blog.
- 2021, Winter Identified fossils on an Egyptian hieroglyphic slab at the Barnes Foundation.
- 2021, Winter Content advisor for “Tales from the Museum” by Atlas Obscura.
- 2020, Spring-Fall Throughout the pandemic, I gave and organized webinars for ANS’ Natural Sciences (WINS) group. I gave an interactive presentation and discussion entitled *Form and Function of Shark’s Teeth* using fossils found in nearby NJ; myself and members of my lab gave two other presentations, and I organized and facilitated five other webinars from faculty, graduate students and researchers.
- 2020, Spring Presenter, Philadelphia Shell Club, avocational group.
- 2020, Winter Organizer of evening event for the WINS; my lab and I created six interactive tables focused on current research, collections improvement, local fossils, and standout specimens, gave collection tours, and spoke about our paths to becoming scientists to ~45 WINS students.
- 2019, Fall Academy Toast to the Collections; I and my team created 6 interactive tables.
- 2018, Spring Academy Spring Forward event with top-level donors.
- 2017-19, & 22’ Fall Members Night at the Academy, ~1,200 guests; displayed fossils from the Invertebrate Paleontology collection, including touchable specimens.
- 2017-2020, & 22’ Summer Co-organizer of Academy’s & BEES’ summer field camp, entitled GeoDESLA, a week-long field camp providing high schoolers experience in the geosciences.

Non-Refereed Work:

Ellwood, E.R. Sessa, J.A., et al. 2020. Viewpoint: Biodiversity Science and the 21st Century Workforce. *BioScience*, v. 70 p. 119–121, doi.org/10.1093/biosci/biz147.

Non-Refereed Work continued:

- De Baets, K., Hoffman, R., Sessa, J.A. and Klug, C. 2016. Fossil Focus: Ammonoids. *Palaeontology Online*, Volume 6.
- Nadeau, P.A., Flores, K.E., Ustunisik, G., Zirakparvar, N.A., Grcevich, J., Pagnotta, A. Sessa, J.A., Kinzler, R.J., Macdonald, M., Mathez, E., Mac Low, M.-M. 2013. Pilot program for teaching Earth Science in New York. *EOS* 94:205-212.

Conference Presentations (last 5 years; * indicates student author):

- Jamson, K.M.*, Fraass, A.J., Sessa, J.A., LeVay, L.J., Peters, S.E., 2024. Investigating the responses of deep-sea sediments to Cenozoic paleoclimate and paleoceanographic events using data synthesis and the eODP project. North American Paleontological Conference.
- Lam, A.R., LeVay, L.J., Bauer, J.E., Loeffler, S., McEwan, R., Fraass, A.J. Sessa, J.A., Casjimere, O.*, Corsello, A.*, Duncan, K.*, Heo, C.*, Ibrahim, H.*, and Li, Y.*, 2023. Training future scientists in communicating the significance of scientific ocean drilling. Geological Society of America (GSA) annual conference; Pittsburg.
- Sessa, J.A., Fraass, A.J., LeVay, L.J., Peters, S.E., Jamson, K.M.*, 2022. The extending Ocean Drilling Pursuits (eODP) project: Synthesizing marine stratigraphic, chronostratigraphic, and micropaleontologic data. Fall meeting American Geophysical Union (AGU); Chicago.
- Martínez-Melo, A., Njie, D.*, Srogota, A.*, Sessa, J.A., 2022. Equinodermos de la Colección de Paleontología de Invertebrados, Academia de Ciencias Naturales de Filadelfia, EUA. Virtual Congreso Latinoamericano de Equinodermos.
- Koester, B.*, Oakes, R.L., Sessa, J.A., 2022. Pteropods and Ocean Acidification: a Comparison of SEM, CT, and Light Microscopy Shell Dissolution Metrics on *Limacina* and *Heliconoides* Specimens. Fall meeting AGU; Chicago.
- Jamson, K.M.*, Sessa, J.A., Fraass, A.J., LeVay, L.J., Peters, S.E., 2022. The extending Ocean Drilling Pursuits (eODP) project: Spatial distribution of biogenic sediments through the Cenozoic. Fall meeting AGU; Chicago.
- Martínez-Melo, A., Sessa, J.A., 2022. Recuperando la Colección de Paleontología de Invertebrados de la Academy of Natural Sciences of Philadelphia (ANSP). XI Congreso Latinoamericano de Paleontología, Quito, Ecuador.
- Sessa, J.A., Fraass, A.J., LeVay, L.J., Peters, S.E., Jamson, K.M.*, 2022. The extending Ocean Drilling Pursuits (eODP) project: Synthesizing marine stratigraphic, chronostratigraphic, and micropaleontologic data. GSA Annual Meeting; Abstracts v. 54.
- Jamson, K.M.* Fraass, A.J., Sessa, J.A., LeVay, L.J., Peters, S.E., 2022. The extending Ocean Drilling Pursuits (eODP) project: Spatial distribution of biogenic sediments from the Cretaceous to the Recent. GSA Annual Meeting; Abstracts v. 54.
- Fraass, A.J., Sessa, J.A., LeVay, L.J., Peters, S.E., Jamson, K.M.* 2022. The extending Ocean Drilling Pursuits (eODP) project: stratigraphic through biotic trends. GSA Annual Meeting; Abstracts v. 54.
- Kwan, W.-Y., Kaufman, S., LeVay, L.J., Fraass, A.J., Peters, S.E. Sessa, J.A., 2022. Creating a reproducible data standardization workflow using Jupyter Notebooks. EarthCube Annual Meeting. Notebook Proceedings Contribution 134.
- LeVay, L.J., Fraass, A.J., Peters, S.E., Sessa, J.A., Kaufman, S., Kwan, W.-Y. 2022. Geologic data standardization for database entry: preparing diverse datasets for hosting and accessibility. EarthCube Annual Meeting.
- Fraass, A.J., LeVay, L.J., Sessa, J.A., Peters, S.E., Kaufman, S., Kwan, W.-Y., Rozanitis, K.*, Naw, W.N., O'Brien, P.* 2020. eODP: adapting existing database structures to work with scientific ocean drilling data. GSA Abstracts v. 52.

Conference Presentations (last 5 years; * indicates student author) continued:

- Fraass, A.J., LeVay, L.J., Sessa, J.A., Peters, S.E. 2020. Extending Ocean Drilling Pursuits [eODP]: Making Scientific Ocean Drilling Data Accessible Through Searchable Databases. EarthCube Annual Meeting, San Diego CA.
- Fraass, A.J., LeVay, L.J., Sessa, J.A., Peters, S.E. 2020. Extending Ocean Drilling Pursuits [eODP]: making scientific ocean drilling data accessible through searchable databases. EGU annual meeting; Vienna, Austria.
- Oakes, R.L., Davis, C.V., Sessa, J.A. 2019. Stable isotopes of *Heliconoides inflatus* pteropod shells record near-surface conditions in the Cariaco Basin. Ocean Sciences Meeting; San Francisco.
- Oakes, R.L., Davis, C.V., Sessa, J.A. 2019. Pteropods as oceanographic proxies: testing the impact of dissolution on stable isotopes and comparing modern and core-top samples. Fall meeting, AGU; San Francisco.
- LeVay, L.J., Fraas, A.J., Sessa, J.A., Peters, S.E. 2019. Extending Ocean Drilling Pursuits [eODP]: making scientific ocean drilling data accessible through searchable databases. Fall meeting, AGU; San Francisco.
- Buczek, A.J.*, Hendy, A., Hopkins, M., Sessa, J.A. 2019. Constraining the age of Californian Pliocene-Pleistocene formations using strontium isotope stratigraphy. North American Paleontological Convention. June 23-27 2019. Riverside, CA.
- Park Boush L.E., Williams, J.W., Bowen, G., Goring, S., Lenhart, K., Noren, A.J., Peters, S.E., Sessa, J.A., Stigall, A.L., Uhen, M. 2018. Big Data in Paleontology—Creating a Roadmap for Building a Data Synthesis Center for the Paleogeosciences. GSA Abstracts v. 50.
- Sessa J.A., Ferguson, K., Landman, N.H., and Macleod, K.G. 2018. Using isotopic composition to determine growth and ecology in baculite and scaphite ammonites. GSA Abstracts v. 50.
- Ivany, L.C. Sessa J.A., Judd, E., Grossman, E., Affek, H, Douglas, P. 2018. Winter temperatures drive climate change in the Paleogene subtropics. Goldschmidt abstracts.
- Oakes, R.L., Bralower, T.J., Sessa, J.A. 2018. Establishing a baseline of the annual variability of pteropod shell thickness in the Cariaco Basin. Fall meeting, AGU; Washington DC.
- Hendy, A.J., Walker, L.J., Krimmel, E.R., Sessa, J.A. 2018. Bringing Back the Buzzing of the Bees: Enhancing the Discovery of Fossil Insect Collections with the ePANDDA API. SPNHC-TDWG annual meeting; Biodiversity Information Science and Standards 2: e26496.
- Sessa, J.A., Butts, S., Karim, T.S., Nelson, G., Norris, C.A., Serratos, D.J., Smith, D., Uhen, M.D. 2018. The ePANDDA project: linking the Paleobiology Database, iDigBio, and iDigPaleo for biological and paleontological research, collections management, and outreach. SPNHC-TDWG annual meeting; Biodiversity Information Science and Standards 2: e26644.
- Sessa, J.A., Butts, S., Karim, T.S., Nelson, G., Norris, C.A., Serratos, D.J., Smith, D., Uhen, M.D. 2018. The ePANDDA project: enhancing paleontological and neontological data discovery API. EarthCube Allhands meeting Alexandria VA; Science Engagement & Outreach session.
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