

Stephanie L Baumgart, PhD

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🌐 <https://www.stephaniebaumgart.com/>



Employment History

- 2023 – 📌 **Postdoctoral Associate**, Prof. Emma Schachner's lab, Department of Physiological Sciences, College of Veterinary Medicine, University of Florida
- 2021 – 2023 📌 **Postdoctoral Scholar**, Prof. Paul Sereno's lab, Department of Organismal Biology and Anatomy, University of Chicago
- 2018 – 2021 📌 **CT Technician**, openVertebrate (oVert) Thematic Collection Network (TCN) National Science Foundation project: CT-scanned, processed, and uploaded to Morphosource.org >500 avian and herpetological specimens from the Field Museum of Natural History
- 2012 – 2015 📌 **Student Fossil Preparator**, Prof. Paul Sereno's lab, University of Chicago

Education

- 2015 – 2021 📌 **PhD University of Chicago**, Integrative Biology
Thesis: *Morphology and evolution of the avian flight apparatus in relation to ecology and function*; Adviser: Paul Sereno
- 2015 – 2018 📌 **MSc University of Chicago**, Integrative Biology
- 2010 – 2014 📌 **BSc University of Chicago**, Biological Sciences
Specialization in Ecology and Evolution, General Honors, Biological Sciences Honors
Thesis: *Pneumaticity in a Cretaceous pterosaur from Niger as compared with modern birds*

Research Publications

- 1 D. C. Blackburn, D. M. Boyer, J. A. Gray, J. Winchester, J. M. Bates, **S. L. Baumgart**, E. Braker, D. Coldren, K. W. Conway, A. D. Rabosky, N. de la Sancha, C. B. Dillman, J. L. Dunnum, C. M. Early, B. W. Frable, M. W. Gage, J. Hanken, J. A. Maisano, B. D. Marks, K. P. Maslenikov, J. E. McCormack, R. S. Nagesan, G. G. Pandelis, H. L. Prestridge, D. L. Rabosky, Z. S. Randall, M. B. Robbins, L. A. Scheinberg, C. L. Spencer, A. P. Summers, L. Tapanila, C. W. Thompson, L. Tornabene, G. J. Watkins-Colwell, L. J. Welton, the oVert Project Team, and E. L. Stanley, "Increasing the impact of vertebrate scientific collections through 3D imaging: The openVertebrate (oVert) Thematic Collections Network," *BioScience*, vol. 74, no. 3, pp. 169–186, Mar. 2024. 🌐 DOI: 10.1093/biosci/biad120.
- 2 N. P. Myhrvold, **S. L. Baumgart**, D. Vidal, F. E. Fish, D. M. Henderson, E. T. Saitta, and P. C. Sereno, "Diving dinosaurs? Caveats on the use of bone compactness and pFDA for inferring lifestyle," *PLOS ONE*, vol. 19, no. 3, e0298957, Mar. 2024. 🌐 DOI: 10.1371/journal.pone.0298957.
- 3 E. T. Saitta, J. Vinther, M. K. Crisp, G. D. Abbott, L. Wheeler, S. Presslee, T. G. Kaye, I. Bull, I. Fletcher, X. Chen, D. Vidal, F. Sanguino, Á. D. Buscalioni, J. Calvo, P. C. Sereno, **S. L. Baumgart**, M. Pittman, M. J. Collins, J. Sakalauskaite, M. Mackie, F. D. Bello, M. R. Dickinson, M. A. Stevenson, P. Donohoe, P. R. Heck, B. Demarchi, and K. E. H. Penkman, "Non-avian dinosaur eggshell calcite can contain ancient, endogenous amino acids," *Geochimica et Cosmochimica Acta*, vol. 365, pp. 1–20, Jan. 2024. 🌐 DOI: 10.1016/j.gca.2023.11.016.
- 4 R. P. DeVries, P. C. Sereno, D. Vidal, and **S. L. Baumgart**, "Reproducible digital restoration of fossils using Blender," *Frontiers in Earth Science*, vol. 10, 2022. 🌐 DOI: 10.3389/feart.2022.833379.

- 5 P. C. Sereno, N. Myhrvold, D. M. Henderson, F. E. Fish, D. Vidal, **S. L. Baumgart**, T. M. Keillor, K. K. Formoso, and L. L. Conroy, “*Spinosaurus* is not an aquatic dinosaur,” *eLife*, vol. 11, e80092, Nov. 2022. [DOI: 10.7554/eLife.80092](https://doi.org/10.7554/eLife.80092).
- 6 **S. L. Baumgart**, P. C. Sereno, and M. W. Westneat, “Wing shape in waterbirds: Morphometric patterns associated with behavior, habitat, migration, and phylogenetic convergence,” *Integrative Organismal Biology*, vol. 3, no. 1, Jan. 2021. [DOI: 10.1093/iob/obab011](https://doi.org/10.1093/iob/obab011).
- 7 G. Senevirathne, **S. Baumgart**, N. Shubin, J. Hanken, and N. H. Shubin, “Ontogeny of the anuran urostyle and the developmental context of evolutionary novelty,” *Proceedings of the National Academy of Sciences*, vol. 117, no. 6, pp. 3034–3044, Feb. 2020. [DOI: 10.1073/pnas.1917506117](https://doi.org/10.1073/pnas.1917506117).

Teaching Experience

Courses

- **Faculty Instructor, *Large Animal Anatomy***; Prof. J. Ignacio Aguirre; ~150 students; 2024
 - Prosected pony and calf specimens for students to consult while learning anatomy
 - Gave advice to students on their dissections and answered questions
 - Pinned practical exam specimens
- **Lead Teaching Assistant, *From Fossils to Fermi’s Paradox: On the Origin and Evolution of Intelligent Life***; Profs. Paul Sereno, Sarah London, Leslie Rogers; ~90 students; 2021
 - Created a template for speakers’ presentations to explicitly include context to help students connect the material to overall themes
 - Assisted with converting the course to an accessible online format with Zoom links and recordings for lectures and discussions
 - Generated/edited transcripts for the lectures
 - Worked with four other TAs and Prof. Rogers to design weekly discussion sections to create an engaging environment for students to work with the material
 - Gave feedback on the directions and rubrics for the blog posts and final project
- **Lead Teaching Assistant, *From Fossils to Fermi’s Paradox: On the Origin and Evolution of Intelligent Life***; Profs. Paul Sereno, Sarah London, Leslie Rogers; ~140 students; 2019
 - Helped design the course structure, policies, syllabus, and grading scheme
 - Led weekly discussion sections with three other TAs (duties divided based on expertise needed for the week)
 - Helped create a midterm and final exam, graded exams
- **Peer Educator, *The Human Body***; Prof. Callum Ross, Dr. Richard Madden; 9 students; 2018
 - Guided Pritzker MD-PhD students through the osteology and cadaver labs of upper limb, lower limb, and head and neck modules
 - Conducted review sessions before exams
 - Helped design, set up, and grade practical exams
- **Teaching Assistant, *Chordates: Evolution and Comparative Anatomy***; Prof. Michael Coates; 9 students; 2018
 - Gave two guest lectures
 - Managed lab sessions
 - Created and graded lab practical exams
- **Teaching Assistant, *Mammalian Evolutionary Biology***; Profs. Zhe-Xi Luo, Kenneth Angielczyk; 6 students; 2016
 - Gave one guest lecture
 - Managed lab sessions/discussion
 - Helped set up and grade lab practical exams

Teaching Experience (continued)

- **Teaching Assistant, *Vertebrate Structure and Function***; Prof. Paul Sereno; 15 students; 2015, 2013
 - Gave one guest lecture per year
 - Managed lab sessions
 - Designed and graded lab quizzes
 - Set up and graded exams
- **Teaching Assistant, *Core Biology: Neuroscience***; Prof. Megan McNulty; 15 students; 2014
 - Led weekly discussions (9) about neuroscience papers
 - Gave draft feedback on and graded written assignments
- **Teaching Assistant, *Dinosaur Science***; Prof. Paul Sereno; 15 students; 2014
 - Gave a guest lecture
 - Designed/hosted review sessions on geology, skeletal anatomy, and phylogenetics
 - Taught students paleontological fieldwork techniques on a week-long dinosaur dig in Wyoming at the end of the course

Mentoring and Training

- **Miss Alexis Slack**, Schachner lab PhD student; trained to use the microCT scanner; 2024
- **Miss Grace Broderick**, Sereno lab member; feedback on grant writing, graduate school applications (Masters from University of Bristol, PhD student at Cambridge); 2019-22
- **Dr Maria Viteri**, University of Chicago undergraduate, Sereno lab member; feedback on senior thesis, grant writing, graduate school applications (recipient of NSF GRFP, PhD from Stanford); 2015-17
- **Miss Brigit Tronrud**, University of Chicago undergraduate; feedback on senior thesis doing image analysis of theropod dinosaur *Suchomimus* neck CT data using Mimics; 2016
- **Miss Shubha Vedula**, University of Chicago undergraduate; image analysis of CT scan data of mammal teeth using Mimics; 2016
- **Mr Marciano Molzahn**, high school student from France; job shadowing for fossil preparation and image analysis of CT scan data using Mimics; 2015




Conference Presentations

- 1 **S. L. Baumgart**, M. B. Habib, M. A. Brown, and E. R. Schachner, "How special are pterosaurs? Comparing cross-sectional structure of pterosaur humeri to that of birds," in *Society of Vertebrate Paleontology 84th Annual Meeting*, Minneapolis, Minnesota, Oct. 2024.
- 2 **S. L. Baumgart**, A. J. Moore, and E. R. Schachner, "Bone distribution in the avian humerus and its correlation with flight style," in *Society of Integrative and Comparative Biology Annual Meeting*, Seattle, Washington, Jan. 2024.
- 3 E. T. Saitta, P. C. Sereno, M. Ciudad Real, D. C. Vidal, T. M. Keillor, **S. L. Baumgart**, N. P. Myhrvold, A. Burdick, T. G. Kaye, and M. Erikson, "Exceptional preservation of integumental structures in hadrosaur 'mummies' via clay templating," in *Society of Vertebrate Paleontology 84th Annual Meeting*, Minneapolis, Minnesota, Oct. 2024.
- 4 E. R. Schachner, A. Martinez, **S. L. Baumgart**, A. B. Lawson, R. E. Diaz Jr, T. Skorka, B. P. Hedrick, and A. J. Moore, "Divergence of pneumatizing pulmonary tissues in five extant avian taxa: Implications for reconstructions across Ornithodira," in *Society of Vertebrate Paleontology 84th Annual Meeting*, Minneapolis, Minnesota, Oct. 2024.







- 5 D. C. Vidal, **S. L. Baumgart**, M. Ciudad Real, A. Gamonal, F. Gasco-Lluna, A. Granados, A. Lazaro, N. Sanchez Fontela, N. P. Myhrvold, and P. C. Sereno, "New dinosaur assemblages from Niger challenge the hypothesis on hyperabundance of large predatory dinosaurs during the "mid-Cretaceous";" in *XXXIX Jornadas de la Sociedad Española de Paleontología*, A Coruña, Spain, Oct. 2024.
- 6 **S. L. Baumgart** and P. C. Sereno, "Morphology and pneumatics of a pterosaur wing (Pterosauria: Ornithocheiromorpha) from the Elrhaz Formation (Aptian-Albian) of Niger," in *Society of Vertebrate Paleontology 83rd Annual Meeting*, Cincinnati, Ohio, Oct. 2023.
- 7 N. P. Myhrvold, P. C. Sereno, **S. L. Baumgart**, D. C. Vidal, F. E. Fish, D. M. Henderson, and E. T. Saitta, "Deep dive on bone compactness and statistical methods for recognizing significance in the inference of lifestyle in spinosaurids and other dinosaurs," in *Society of Vertebrate Paleontology 83rd Annual Meeting*, Cincinnati, Ohio, Oct. 2023.
- 8 P. C. Sereno, R. P. DeVries, N. P. Myhrvold, **S. L. Baumgart**, D. C. Vidal, T. M. Keillor, and L. L. Conroy, "*FossilScope*: Lifting the veil on the underlying data and manipulations yielding 3-dimensional skeletal and flesh models," in *Society of Vertebrate Paleontology 83rd Annual Meeting*, Cincinnati, Ohio, Oct. 2023.
- 9 **S. L. Baumgart**, "Comparative pneumaticity in the avian humerus and implications for pterosaurs," in *Society of Integrative and Comparative Biology Annual Meeting*, Phoenix, Arizona, Jan. 2022.
- 10 **S. L. Baumgart** and L. P. A. M. Claessens, "Avian sternum disparity and ecomorphological implications," in *Society of Integrative and Comparative Biology Annual Meeting*, Austin, Texas, Jan. 2020.
- 11 G. Senevirathne, **S. L. Baumgart**, N. Shubin, J. Hanken, and N. H. Shubin, "Ontogeny of the anuran urostyle: The developmental context of evolutionary novelty," in *Society of Integrative and Comparative Biology Annual Meeting*, Austin, Texas, Jan. 2020.
- 12 **S. L. Baumgart** and P. C. Sereno, "Phylogeny repetitively constrains bird morphology," in *Society of Vertebrate Paleontology 79th Annual Meeting*, Brisbane, Australia, Oct. 2019.
- 13 C. M. Early, J. M. Bates, **S. L. Baumgart**, A. T. Peterson, H. L. Prestridge, M. B. Robbins, G. J. Watkins-Colwell, and D. C. Blackburn, "Information gaps in digital databases as identified by a multi-institution initiative to digitize avian specimens," in *iDigBio Annual Summit*, Gainesville, Florida, 2019.
- 14 **S. L. Baumgart**, "Does body mass constrain wing shape or sternum shape?" In *Society of Integrative and Comparative Biology Annual Meeting*, San Francisco, California, Jan. 2018.
- 15 **S. L. Baumgart**, "Convergence in avian sternum morphology and relation to ecology," in *1st Annual Great Lakes Student Paleoconference*, University of Michigan, Ann Arbor, Michigan, 2017.
- 16 **S. L. Baumgart**, "Relating ecology to sternum morphology in 'water birds'," in *Society of Vertebrate Paleontology 83rd Annual Meeting*, Calgary, Alberta, Canada, Aug. 2017.
- 17 **S. L. Baumgart** and M. W. Westneat, "Geometric morphometrics of the avian wing and sternum," in *Society of Integrative and Comparative Biology Annual Meeting*, New Orleans, Louisiana, Jan. 2017.
- 18 **S. L. Baumgart** and M. W. Westneat, "Geometric morphometrics of the avian wing and sternum," in *Society for Advancement of Chicanos/Hispanics and Native Americans in Science, Regional Conference*, Chicago, Illinois, May 2017.
- 19 **S. L. Baumgart** and P. C. Sereno, "Pneumaticity in modern birds compared to a large pterosaur," in *Society of Vertebrate Paleontology 75th Annual Meeting*, Dallas, Texas, Oct. 2015.

- 20 **S. L. Baumgart**, “Air vs. bone in the wing skeleton of a giant pterosaur,” in *University of Chicago Undergraduate Biological Sciences College Division Honors Symposium*, Chicago, Illinois, May 2014.
- 21 **S. L. Baumgart** and P. C. Sereno, “Pneumaticity in a large pterosaur compared to modern birds,” in *10th North American Paleontological Convention*, Gainesville, Florida, Feb. 2014.

Awards and Grants







- \$106,575  Graduate Assistance in Areas of National Need Fellowship (GAANN Program, US Federal Department of Education) Integrative and Comparative Neuromechanics; 2017-18
(4 quarters of tuition, stipend, and fees)
- \$101,937  Graduate Assistance in Areas of National Need Fellowship (GAANN Program, US Federal Dept. of Education) Integrative and Comparative Neuromechanics; 2016-17
(4 quarters of tuition, stipend, and fees)
- \$1,784  Henry Hinds Evolutionary Biology Graduate Student Research Award, Committee on Evolutionary Biology, University of Chicago; 2016

Student Travel Grants

- hotel cost  Charlotte Magnum Student Support Program Award recipient for Society of Integrative and Comparative Biology Annual Meeting; 2020
- \$600  University of Chicago Biological Sciences Division Dean’s Council Travel Grant for Society of Integrative and Comparative Biology Annual Meeting; 2020
-  Jackson School of Geosciences Student Travel Grant for Society of Vertebrate Paleontology 79th Annual Meeting; 2019
- registration  Charlotte Magnum Student Support Program Award recipient for Society of Integrative and Comparative Biology Annual Meeting; 2018
- \$395  North American Paleontological Convention student travel grant; 2014
- \$400  iDigBio travel grant for North American Paleontological Convention funded by National Science Foundation; 2014

Invited Talks and Lectures

Invited Talks

-  **A day in the life of a grad student**, University of Chicago Paleontology Club; 2019
-  **Does foraging behavior constrain avian wing shape or sternum shape?**, 6th Annual Darwin Cluster Retreat, University of Chicago, Chicago, IL; 2018
-  **Comparing bat wings to bird wings**, Bat Symposium, Field Museum of Natural History, Chicago, IL; 2017
-  **Patterns and constraints in the structural properties of vertebrate wings**, University of Chicago Paleontology Club; 2017
-  **Wing pneumaticity in modern birds compared to a Cretaceous pterosaur**, Poster, Baumgart S.L., Conroy, L.L.; US-China Critical Transitions in the History of Life workshop; Field Museum of Natural History, sponsored by the National Science Foundation; 2015
-  **Paleontology 101**, University of Chicago Paleontology Club; 2015

Invited Talks and Lectures (continued)

- **Pneumaticity in a Cretaceous pterosaur from Niger as compared with modern birds**, University of Chicago Undergraduate Research Symposium; 2014

University of Chicago Class Lectures

- **“Bones/cartilage”**, Chordates: Evolution and Comparative Anatomy; 2018
- **Amniote Diversity II: Dinosaurs/Birds/Mammals**, Chordates: Evolution and Comparative Anatomy; 2018
- **Ecological adaptations**, Mammalian Evolutionary Biology; 2016
- **Early theropod dinosaurs**, Dinosaur Science; 2016
- **Editing Wikipedia articles**, Dinosaur Science;; 2016
- **Gliding and flying**, Vertebrate Structure and Function; 2015
- **Digging and climbing**, Vertebrate Structure and Function; 2014
- **Marginocephalian dinosaurs**, Dinosaur Science; 2014
- **Gliding and flying**, Vertebrate Structure and Function; 2013

Fieldwork

- **Sereno expedition**, three months in Niger; 2022
 - Excavating and prospecting in multiple Jurassic and Cretaceous paleontological beds and a Holocene archaeological bed
 - Part of the organizing team: creating a food order list and tracking the food inventory throughout the expedition, tracking and logging receipts during the trip
- **Sereno expedition**, five weeks in Niger; 2018
 - Paleontology and archaeology excavation and prospecting; late Jurassic, early Cretaceous, and Holocene beds at multiple sites
 - Logged and stored >400 artifacts found in the Gobero site (Holocene)
 - Used an RTK GPS system for taking precision GPS coordinates
 - Entered human artifact information into the Online Cultural and Historical Research Environment (OCHRE) database
- **Sereno expedition**, one week per year in Wyoming; 2013-18
 - Taught Professor Sereno’s Dinosaur Science college students paleontological fieldwork and excavation techniques
- **UChicago Paleontology Club field trip**, weekend-long trip near Toledo, Ohio; 2017
 - Co-organized and led a geology and invertebrate survey trip for a group of 10-15 undergraduate students to Devonian and Ordovician formations near Toledo, Ohio
- **UChicago Paleontology Club field trip**, weekend-long trip near Cincinnati, Ohio; 2016
 - Co-organized and led a geology and invertebrate survey trip for a group of 10-15 undergraduate students to Ordovician formations near Cincinnati, Ohio

Achievements and Certifications

Achievements

- **March 2024 RSC User of the Month**, awarded by University of Florida College of Engineering Research Services Center for excellent adherence to safety protocols and communication with staff; 2024
- **University of Chicago Dean's List**, maintaining a GPA above 3.25; 2013-14

Certifications

- **Postdoc Mentorship**, completed a series of seminars and discussions to learn about mentoring students, awarded by the University of Chicago Office of Postdoctoral Affairs; 2023
- **DEI Mentorship**, completed a series of seminars and discussions to learn about facilitating an inclusive classroom and lab environment, awarded by the University of Chicago Office of Postdoctoral Affairs; 2022
- **Chicago College Teaching**, completed a pedagogical training program with mentoring and feedback, awarded by the University of Chicago Center for College Teaching; 2021

Professional Development

Databases

- **Specify 6.0**, museum collection database software; 2021 –
 - Taught myself to use the software, set up databases for the University of Chicago Teaching Collection and Niger's National Museum Boubou-Hama Collection
 - Teaching new users to use the database and helping log specimen fieldwork and collection data
- **Electronic Museum (EMu)**, museum collection database software; 2018
 - Trained to use the software to help log CT data at the Field Museum of Natural History in Chicago, IL
- **Online Cultural and Historical Research Environment (OCHRE)**, Archaeology database software; 2018
 - Trained to use the software to log >400 Niger 2018 expedition archaeological artifacts

Software

- **CT data imaging analysis**, VGStudio Max, Mimics, Avizo, Checkpoint, Slicer
- **R**, geometric morphometrics, phylogenetic comparative methods, data processing and visualization
- **Additional phylogenetics programs**, TNT, PAUP*

Other Training

- **Waygate/GE v|tomex|m microCT scanner**, University of Florida; 2023
- **Medical human anatomy course**, University of Chicago Pritzker School of Medicine, Prof. Callum Ross; 2017
- **Waygate/GE v|tomex|s microCT scanner**, University of Chicago; 2015

Outreach

- **Connecting Champions**, Pittsburgh, PA; 2023-24
 - Remote mentoring a child with cancer who wants to be a paleontologist, meeting once or twice a month for a year
- **Florida Museum of Natural History**, Gainesville, FL; 2023
 - Gave a public online talk "Meet a Scientist: Tools of Science" showcasing the use of CT scans in paleontology and anatomy research
- **Field Museum of Natural History**, Chicago, IL; 2016-23
 - "Dozin' with the Dinos" overnight program science showcase staff for Birds or Fossils tables (8-10 two-hour events/year, none in 2021)
 - Members' Night staff showing off fossils in the over-sized fossil collections (2019)
 - Science Hub's "Meet a Scientist," pterosaur showcase; one 2-hour event (2018)
 - Science Hub's "Meet a Scientist," bird showcase; one 2-hour event (2016)
- **Skype-A-Scientist**; 2021
 - Spoke to a dinosaur summer camp (kindergarten-5th grade) about dinosaurs and paleontology
 - Spoke to Canadian fifth-grade class about my research on birds and flight
- **School of Innovation gallery**, Texas A&M University; 2021
 - Created an exhibit piece from CT data on the unique scute anatomy of *Alligator sinensis* containing a 2D image, 3D skull, and descriptive voice note
- **Agitator Gallery Art and Science series**, Chicago, IL; 2018
 - Oral presentation for the adult members of the general public, "Reptiles in the Air"
- **Life Long Learning Series**, Chicago, IL; 2016-18
 - Science presentations aimed at senior citizens
 - Oral presentation: "Seeing by hearing: echolocation throughout the animal kingdom," 2 events: Sulzer Public Library, Renaissance Court Senior Center
 - Oral Presentations: "Bones of Air," 5 events: Harbor Point, Conrad Sulzer Library, Woodson Public Library, Renaissance Court Senior Center, Montgomery Place
- **Museum of Science and Industry**, Chicago, IL; 2017
 - Science showcase staff for the Paleontology table at outreach program "Science Works"
- **Little Chute Middle School**, Little Chute, WI; 2017
 - Held a Skype session about paleontology with two 6th grade classes
- **Monta Herson's homeschool group**, Chicago, IL; 2017
 - Designed and hosted workshop for 20 junior high and high school students covering basics of anatomy, geology, paleontology with a Sereno Fossil Lab tour
- **Expanding Your Horizons**, Chicago, IL; 2017
 - Co-hosted workshop for underserved middle school girls covering basics of anatomy, geology, paleontology with a Sereno Fossil Lab tour
- **Hamilton Elementary School**, Chicago Public School system, Chicago, IL; 2016
 - "Paleomicrobiology" school visit with a 4/5th grade class
 - "Paleogeology" school visit with a 6th grade class
 - "Paleoecology" school visit with a 7th grade class
- **Andrew Jackson Language Academy**, Chicago Public School system, Chicago, IL; 2014-16
 - "Dinosaurs and prehistoric food webs" school visit with two 5th grade classes (2016)
 - "Paleontology and prehistoric food webs" school visit with two 5th grade class (2014)

Outreach (continued)

- **Splash! Chicago**, Chicago, IL; 2014
 - Program for underserved high school students in the Chicago area
 - Created and hosted two workshops covering basics of anatomy, geology, paleontology with a Sereno Fossil Lab tour

Professional Service

- **Reviewed manuscripts:** Journal of Vertebrate Paleontology (1), Scientific Reports (1), Journal of Linnean Society (1), Communications Biology (1), Integrative Organismal Biology (1), Journal of Natural History (1)
- **'Paleo Hangouts' Discord server**, 2020 –
 - Co-created and co-moderate a Discord server for the international paleontology community to connect, discuss papers, ask advice
 - >300 members ranging from high school students to professors
- **Session chair**
 - "Evolutionary Morphology," Society for Integrative and Comparative Biology Annual Meeting, Austin, Texas; 2020
 - "Neornithes," Society of Vertebrate Paleontology Annual Meeting, Calgary, Alberta; 2017
- **Student conference organization**
 - Assembled and led an organization committee to host 2nd Annual Great Lakes Student Paleoconference at the University of Chicago, Chicago, Illinois; 2018
 - Co-organized 1st Annual Great Lakes Student Paleoconference held at the University of Michigan, Ann Arbor, Michigan; 2017
- **University of Chicago Paleontology Club**
 - Co-founded this student organization to bring together students interested in paleontology as a career or as an enthusiast; 2015
- **University of Chicago Biological Sciences College Division Research Honors Retreat**
 - Co-organized the first annual retreat as part of the biology honors program to share research and network; 2013