

William Gearty
Lerner-Gray Postdoctoral Research Fellow
Richard Gilder Graduate School
American Museum of Natural History
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EDUCATION

- Ph.D. in Geological Sciences** 2014 – 2019
Stanford University, Stanford, CA
Research Advisor: Jonathan Payne
Thesis Title: Physiological Constraints of Aquatic Invasions in Tetrapods
- B.S. with Honors in Geology and Geophysics** 2010 – 2014
Yale University, New Haven, CT
Research Advisor: Jacques Gauthier
Thesis Title: Resolving the Relationships of the Squamate Tree of Life: An Assessment of New Approaches and Problems
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RESEARCH AND WORK EXPERIENCE

- Postdoctoral Research Fellow** 2022 – present
American Museum of Natural History, New York, NY
Research Advisor: John Flynn
- Postdoctoral Research Fellow** 2019 – 2022
University of Nebraska-Lincoln, Lincoln, NE
Research Advisors: Kate Lyons and Peter Wagner
- Graduate Research Assistant** 2014 – 2019
Stanford University, Stanford, CA
Research Advisor: Jonathan Payne
- Research Intern** 2012
Summer Undergraduate Research in Geoscience and Engineering
Stanford University, Stanford, CA
Research Advisor: Jonathan Payne
- Undergraduate Research Assistant** 2011 – 2014
Yale University, New Haven, CT
Research Advisors: Jacques Gauthier and Elisabeth Vrba
- Student Collections Assistant/Student Researcher** 2011 – 2014
Marsh Dinosaur Collection, Fossil Mammals, and Invertebrate Paleontology
Peabody Museum of Natural History, New Haven, CT

PUBLICATIONS AND PRESENTATIONS

^undergraduate student #graduate student

Peer Reviewed Publications:

- 13) **Gearty, W.** *in review*. Selective extinction and random origination drove the short-lived nature of large and marine crocodylomorph clades.
- 12) **Gearty, W.**, Uricchio, L., Lyons, S.K. *in review*. Human impacts are indirectly associated with mammal body size homogenization among communities.
- 11) **Gearty, W.** and Jones, L.A. 2023. rphylopic: An R package for fetching, transforming, and visualising PhyloPic silhouettes. *Methods in Ecology and Evolution*, 14(11), 2700-2708. doi: [10.1111/2041-210X.14221](https://doi.org/10.1111/2041-210X.14221).
- 10) Jones, L.A., **Gearty, W.**, Allen, B.J., Eichenseer, K., Dean, C.D., Galván, S.#, Kouvari, M.#, Godoy, P.L., Nicholl, C.#, Buffan, L.#, Dillon, E.M., Flannery-Sutherland, J.T., Chiarenza, A.A. 2023. palaeoverse: A community-driven R package to support palaeobiological analysis. *Methods in Ecology and Evolution*, 14(9), 2205-2215. doi: [10.1111/2041-210X.14099](https://doi.org/10.1111/2041-210X.14099).
- 9) Cooke, R., **Gearty, W.** (*co-first author*), Chapman, A.S.A., Dunic, J.^, Edgar, G.J., Lefcheck, J.S., Rilov, G., McClain, C.R., Stuart-Smith, R.D., Lyons, S.K., and Bates, A.E. 2022. Anthropogenic disruptions to longstanding patterns of trophic-size structure in vertebrates. *Nature Ecology & Evolution*, 6, 684-692. doi: [10.1038/s41559-022-01726-x](https://doi.org/10.1038/s41559-022-01726-x).
- 8) Benson, R.B.J., Godoy, P., Bronzati, M., Butler, R., and **Gearty, W.** 2022. Reconstructed evolutionary patterns for crocodile-line archosaurs demonstrate impact of failure to log-transform body size data. *Communications Biology*, 5(171). doi: [10.1038/s42003-022-03071-y](https://doi.org/10.1038/s42003-022-03071-y).
- 7) Monarrez, P.M., Zimmt, J.B., Clement, A.M., **Gearty, W.**, Jacisin, J.J., Jenkins, K.M., Kusnerik, K.M., Poust, A.W., Robson, S.V., Sclafani, J.A., Stilson, K.T., Tennakoon, S.D., and Thompson, C.M. 2021. Our past creates our present: A brief overview of racism and colonialism in Western paleontology. *Paleobiology*, 48(2), 173-185. doi: [10.1017/pab.2021.28](https://doi.org/10.1017/pab.2021.28).
- 6) **Gearty, W.**, Carrillo, E.^, and Payne, J.L. 2021. Ecological filtering and exaptation in the evolution of marine snakes. *The American Naturalist*, 198(4), 506-521. doi: [10.1086/716015](https://doi.org/10.1086/716015).
- 5) Boag, T.H., **Gearty, W.** (*co-first author*), and Stockey, R.G. 2021. Metabolic tradeoffs control biodiversity gradients through geological time. *Current Biology*, 31(13), 2906-2913. doi: [10.1016/j.cub.2021.04.021](https://doi.org/10.1016/j.cub.2021.04.021).
- 4) **Gearty, W.** and Payne, J.L. 2020. Physiological constraints on body size distributions in Crocodyliformes. *Evolution*, 74(2), 245-255. doi: [10.1111/evo.13901](https://doi.org/10.1111/evo.13901).
- 3) **Gearty, W.**, McClain, C.R., and Payne, J.L. 2018. Energetic tradeoffs control the size distribution of aquatic mammals. *Proceedings of the National Academy of Sciences*, 115(16), 4194-4199. doi: [10.1073/pnas.1712629115](https://doi.org/10.1073/pnas.1712629115).
- 2) Racicot, R.A., **Gearty, W.**, Kohno, N., and Flynn, J.J. 2016. Comparative anatomy of the bony labyrinth of extant and extinct porpoises (Cetacea: Phocoenidae). *Biological Journal of the Linnean Society*, 119(4), 831-846. doi: [10.1111/bj.12857](https://doi.org/10.1111/bj.12857).
- 1) Field, D.J., D'Alba, L., Vinther, J., Webb, S., **Gearty, W.**, Shawkey, M.D. 2013. Melanin concentration gradients in modern and fossil feathers. *PLoS ONE* 8(3), e59451. doi: [10.1371/journal.pone.0059451](https://doi.org/10.1371/journal.pone.0059451). [Winner of the G.G. Simpson Prize]

Manuscripts in Preparation:

- 5) **Gearty, W.**, Allen, B.J., Godoy, P.L., Chiarenza, A.A. *in prep*. The impact of fossil tips on reconstructing trait evolution using phylogenetic comparative methods.

- 4) Jones, L.A., Allen, B.J., **Gearty, W.**, and Buffan, L. *in prep.* Global plate model choice impacts reconstructions of the latitudinal biodiversity gradient.
- 3) **Gearty, W.** and Lyons, S.K. *in prep.* Ubiquitous lack of extinction selectivity in body size and body size change across Cenozoic mammals.
- 2) **Gearty, W.**, Tomé, C.P., Smith, Q.[#], Smith, F.A., Shizuka, D., Lyons, S.K. *in prep.* The introduction of large mammals has not remedied the ecological impact of the Late Pleistocene extinctions.
- 1) **Gearty, W.**, Aandahl, Z., Carter, B.[#], Todorov, O.S., Alroy, J., Brook, B., Lyons, S.K. *in prep.* The differential effects of the Pleistocene megafaunal extinction on modern biomes.

Invited Presentations:

- 10) **Gearty, W.** 2022. Body Mass Constraints on Aquatic Invasions in Tetrapods. Pal(a)eoPERCS (Pal(a)eo EaRly Career Seminar).
- 9) **Gearty, W.** 2021. The Energetics of Biodiversity. University of Nebraska-Lincoln Ecology and Evolutionary Biology Seminar.
- 8) **Gearty, W.** 2020. Physiological Constraints of Aquatic Invasions in Tetrapods. Southeastern Louisiana University Biological Sciences Seminar.
- 7) **Gearty, W.** 2020. Physiological Constraints of Aquatic Invasions in Tetrapods. University of Washington Paleolunch Seminar.
- 6) **Gearty, W.** 2019. Physiological Constraints of Aquatic Invasions in Tetrapods. University of Nebraska-Lincoln Ecology and Evolutionary Biology Seminar.
- 5) **Gearty, W.** 2019. So, you want to live in the water? A tale of why aquatic mammals are so big. University of California Museum of Paleontology Annual Short Course.
- 4) **Gearty, W.** 2019. Making Publication Quality Figures in R. Stanford Earth SkillShare Series.
- 3) **Gearty, W.** 2019. Introduction to R. Stanford Earth SkillShare Series.
- 2) **Gearty, W.** 2018. Energetically driven convergence and other dynamics of the body size evolution of secondarily aquatic vertebrates. University of California Museum of Paleontology Fossil Coffee.
- 1) **Gearty, W.** 2017. Using CT Data to Score Taxa for Phylogenetic Analyses. iDigBio Workshop on Using Digitized Paleontological Data in Research.

Conference and Workshop Presentations and Posters:

- 33) **Gearty, W.**, Allen, B.J., Godoy, P.L., Chiarenza, A.A. 2023. Including fossil tips often, but not always, vastly improves the reconstruction of trait evolution using phylogenetic comparative methods. *Geological Society of America Abstracts with Programs*. Vol 55, No. 6.
- 32) Jones, L.A., **Gearty, W.**, Allen, B.J., Eichenseer, K., Dean, C.D., Galván, S.[#], Godoy, P.L., Nicholl, C.[#], Dillon, E.M., Chiarenza, A.A. 2023. palaeoverse: A community-driven R package to support palaeobiological analysis. *Geological Society of America Abstracts with Programs*. Vol 55, No. 6.
- 31) Payne, J.L., Bak, T.M., Beatty, C.D., Gearty, W., Heim, N., Klompmaker, A., Knope, M.L., Monarrez, P., Munstermann, M., Myrup, K. 2023. Human harvesting is the most pervasive threat to larger vertebrate and invertebrate animals. *Geological Society of America Abstracts with Programs*. Vol 55, No. 6.
- 30) Smith, Q.[#], Shizuka, D., Tomé, C.P., **Gearty, W.**, Smith, F.A., Lyons, S.K. 2023. Changes in the structure of hall's cave food web networks over the last 22,000 are associated with climate change. *Geological Society of America Abstracts with Programs*. Vol 55, No. 6.

- 29) Allen, B.J., **Gearty, W.**, Godoy, P., and Chiarenza, A.A. 2023. The impact of fossil tips on reconstructing trait evolution using phylogenetic comparative methods. *The Palaeontological Association 67th Annual Meeting*.
- 28) Lyons, S.K., Tomé, C.P., Freymueller, N.[#], **Gearty, W.**, Keller, J.[#], Pardi, M.I., Elliott Smith, E.A., Smith, F.A., Smith, Q.[#], Wagner, P.J. 2023. Changes in small mammal abundance distributions following the end-Pleistocene loss of large mammal ecosystem engineers. 2023. *13th International Mammalogical Congress*.
- 27) Jones, L.A., Eichenseer, K., **Gearty, W.**, Galván, S.[#], Allen, B.J., Dean, C.D., Chiarenze, A.A., Kouvari, M.[#], Buffan, L.[#], Dunne, E.M., Nicholl, C.[#], Godoy, P.L., Monarrez, P., Dillon, E.M. 2022. palaeoverse: a community-driven R package to support palaeobiological analysis. *1^o Simposio de Paleontología del Noroeste Peninsular*.
- 26) Jones, L.A., Eichenseer, K., **Gearty, W.**, Galván, S.[#], Allen, B.J., Dean, C.D., Chiarenze, A.A., Kouvari, M.[#], Buffan, L.[#], Dunne, E.M., Nicholl, C.[#], Godoy, P.L., Monarrez, P., Dillon, E.M. 2022. palaeoverse: a community-driven R package to support palaeobiological analysis. *The 6th International Palaeontological Congress*.
- 25) **Gearty, W.**, 2022. The complex history of extinction and origination selectivity in Crocodylomorpha. *Journal of Vertebrate Paleontology*, Program and Abstracts, 2022.
- 24) **Gearty, W.**, 2022. Selective extinction and random origination drove the short-lived nature of large and marine crocodylomorph clades. *Geological Society of America Abstracts with Programs*. Vol 54, No. 5.
- 23) Lyons, S.K., Tomé, C.P., Freymueller, N.[#], **Gearty, W.**, Keller, J.[#], Pardi, M.I., Elliott Smith, E.A., Smith, F.A., Smith, Q.[#], Wagner, P.J. 2022. Changes in small mammal abundance distributions following the loss of large mammal ecosystem engineers at the terminal Pleistocene. 2022. *Geological Society of America Abstracts with Programs*. Vol 54, No. 5.
- 22) Smith, Q.[#], Shizuka, D., Tomé, C.P., **Gearty, W.**, Smith, F.A., Lyons, S.K. 2022. Changes in mammalian networks across the Pleistocene-Holocene transition as a result of the megafaunal extinction. *Geological Society of America Abstracts with Programs*. Vol 54, No. 5.
- 21) **Gearty, W.**, Cooke, R.S.C., Chapman, A.S.A., Dunic, J.[^], Edgar, G.J., Lefcheck, J.S., Rilov, G., McClain, C.R., Stuart-Smith, R.D., Lyons, S.K., and Bates, A.E. 2022. Humans are disrupting a longstanding trophic-size structure in vertebrates. *International Biogeography Society 10th Biennial Conference*.
- 20) Lyons, S.K., Tomé, C.P., Freymueller, N.[#], **Gearty, W.**, Keller, J.[#], Pardi, M.I., Elliott Smith, E.A., Smith, F.A., Smith, Q.[#], Wagner, P.J. 2022. Changes in small mammal species distributions following the terminal Pleistocene megafauna extinction. 2022. *International Biogeography Society 10th Biennial Conference*.
- 19) **Gearty, W.**, Carrillo, E.[^], and Payne, J.L. 2021. Ecological filtering and exaptation in the evolution of marine snakes. *Geological Society of America Abstracts with Programs*. Vol 53, No. 6.
- 18) Boag, T.H., **Gearty, W.**, and Stockey, R.G. 2021. Metabolic tradeoffs control biodiversity gradients through geological time. *Geological Society of America Abstracts with Programs*. Vol 53, No. 6.
- 17) **Gearty, W.** 2020. Body size and habitat extinction selectivity in Crocodyliformes. *Geological Society of America Abstracts with Programs*. Vol 52, No. 6.
- 16) **Gearty, W.** and Payne, J.L. 2019. Pathways to the marine realm in Serpentes. *Geological Society of America Abstracts with Programs*. Vol. 51, No. 5.
- 15) Carrillo, E.[^], **Gearty, W.**, and Payne, J.L. 2019. Factors that predict reproductive mode in snakes. *Evolution* 2019.

- 14) Boag, T., **Gearty, W.**, and Stockey, R. 2019. Exploring the role of ecophysiology and metabolism in governing marine latitudinal biodiversity gradients during past icehouse and greenhouse climates. *11th North American Paleontological Conference* Program with Abstracts. *Paleobios*, 36.
- 13) **Gearty, W.** and Payne, J.L. 2019. Energetics drives convergent gigantism in marine Crocodyliformes. *11th North American Paleontological Conference* Program with Abstracts. *Paleobios*, 36.
- 12) **Gearty, W.** 2019. Physiological constraints on body size distributions in Crocodyliformes. *NorCal Paleo Conference*.
- 11) **Gearty, W.** and Payne, J.L. 2018. Dynamics of the body size evolution of crocodyliformes. *Geological Society of America* Abstracts with Programs. Vol. 50, No. 6.
- 10) Ormsby, C.^, **Gearty, W.**, and Payne, J.L. 2018. The effect of habitat on diversification rate in snakes. *Geological Society of America* Abstracts with Programs. Vol. 50, No. 6.
- 9) **Gearty, W.** and Payne, J.L. 2018. Convergent body size evolution of crocodyliformes upon entering the aquatic realm. *Society of Integrative and Comparative Biology* 2018.
- 8) **Gearty, W.**, McClain, C.R., and Payne, J.L. 2017. Energetics both promote and limit aquatic mammal gigantism. *Geological Society of America* Abstracts with Programs. Vol. 49, No. 6.
- 7) **Gearty, W.** and Payne, J.L. 2017. Convergent body size evolution of crocodyliformes upon entering the aquatic realm. *Evolution* 2017. [**Honorable mention for Ruth Patrick Student Poster Award**]
- 6) **Gearty, W.**, McClain, C.R., and Payne, J.L. 2016. The evolution of aquatic mammals toward a nearly universal large size? Evidence from phylogenetics and fossils. *Geological Society of America* Abstracts with Programs. Vol. 48, No. 7.
- 5) Benjamin, M.^, **Gearty, W.**, Payne, J.L. 2015. Evolution of Larger Body Length during Transitions from Terrestrial to Aquatic Habitats in Snakes (Suborder Serpentes). Stanford Bio-X Interdisciplinary Initiatives Symposium.
- 4) **Gearty, W.** and Payne, J.L. 2015. Phylogenetic and fossil evidence for a common body size attractor in marine mammals. *Geological Society of America* Abstracts with Programs. Vol. 47, No. 7. [**Honorable mention for GBGM Division Student Awards**]
- 3) **Gearty, W.** and Gauthier, J. 2014. Resolving the Relationships of the Squamate Tree of Life: An Assessment of New Approaches and Problems. *Journal of Vertebrate Paleontology*, Program and Abstracts, 2014, 136.
- 2) **Gearty, W.**, D'Alba, L., Vinther, J., Shawkey, M., Field, D. 2013. Melanin concentration gradients in modern and fossil feathers. *Journal of Vertebrate Paleontology*, Program and Abstracts, 2013, 132.
- 1) **Gearty, W.** and Payne, J.L. 2012. Assessing the completeness of the fossil record using brachiopod Lazarus taxa. Fall Meeting, *American Geophysical Union* San Francisco, Calif., 3-7 Dec. Abstract B11A-0387.

Book Reviews:

- Gearty, W.** 2020. "Nature's Giants: The Biology and Evolution of the World's Largest Lifeforms by Graeme D. Ruxton". *The Quarterly Review of Biology* 95(2), pg. 141.
- Gearty, W.** 2019. "The Rise of Marine Mammals by Annalisa Berta". *Fossil News*.
- Gearty, W.** 2018. "Exploration & Discovery: Treasures of the Yale Peabody Museum of Natural History by David K. Skelly and Thomas J. Near". *The Quarterly Review of Biology* 93(2), pg. 128.
- Gearty, W.** 2016. "The Worst of Times: How Life on Earth Survived Eighty Million Years of Extinctions by Paul B. Wignall". *The Quarterly Review of Biology* 91(4), pg. 500.

PUBLISHED SOFTWARE

- **deeptime (R package):** Tools to help with plotting data over long time intervals. doi: [10.5281/zenodo.2723127](https://doi.org/10.5281/zenodo.2723127). (source code: <https://github.com/willgearty/deeptime>)
- **palaeoverse (R package):** A community-driven toolkit to support palaeobiological analyses. doi: [10.5281/zenodo.7728638](https://doi.org/10.5281/zenodo.7728638). (source code: <https://github.com/palaeoverse-community/palaeoverse>)
- **rphylopic (R package):** Functions to retrieve silhouettes from PhyloPic and add them to R plots. doi: [10.5281/zenodo.775772](https://doi.org/10.5281/zenodo.775772). (source code: <https://github.com/palaeoverse-community/rphylopic>)
- **pcmtools (R package):** Various tools to help with performing phylogenetic comparative methods and curating/visualizing the results. doi: [10.5281/zenodo.3477539](https://doi.org/10.5281/zenodo.3477539). (source code: <https://github.com/willgearty/pcmtools>)
- **ESP-Website:** A website to help manage the logistics of large short-term educational programs (source code: <https://github.com/learning-unlimited/ESP-Website>)

FELLOWSHIPS AND LARGE GRANTS

Norman Newell Early Career Grant (\$5,000)	2023
Lerner-Gray Postdoctoral Research Fellowship (\$67,000/year)	2022-2024
Population Biology Program of Excellence Postdoctoral Fellowship (\$45,000/year)	2019 – 2022
ARCS Foundation Scholar Award (\$42,400)	2018 – 2019
Richard and Megumi Strathmann Endowed Fellowship, Friday Harbor Labs (\$1,600)	2015
Yale College Dean's Research Fellowship in the Sciences (\$3,300)	2013
Richter Summer Fellowship for Independent Study or Research (\$1,000)	2013
Karen Von Damm '77 Undergraduate Research Fellowship (\$2,000)	2013

OTHER GRANTS

UNL Postdoc Travel Grant	2021
NAPC Student Travel Grant	2019
GSA Annual Meeting Student Travel Grant (Cordilleran Section)	2015, 2016, 2018
Jackson School of Geosciences SVP Student Member Travel Grant	2013

HONORS AND AWARDS

Outstanding Postdoc Award, University of Nebraska-Lincoln	2022
Centennial Teaching Assistant Award, Stanford University	2019
Yale Club of New Haven Gregory Yamanaka Ph.D. '76 B.A. Senior Essay Prize	2014
William R. Belknap Prize for Excellence in Geological Studies	2014

TEACHING EXPERIENCE

<i>Richard Gilder Graduate School, American Museum of Natural History:</i>	
RGGS660: Extinction Science	2023

- Guest lecturer on Early Cenozoic radiations/PETM extinctions and Late Pleistocene extinctions

University of Nebraska-Lincoln:

Phylogenetic Comparative Methods 2020

- Taught seminar course for graduate students on recent developments of methods and their applications

Stanford University:

GS 128/228 – Evolution of Terrestrial Ecosystems Winter 2017-2018

- Head teaching assistant, revised lab exercises that I co-developed during the previous year, co-taught lab sections

GS 123/223B – Evolution of Marine Ecosystems Fall 2017-2018

- Developed and taught a new lab curriculum focused on hands-on learning with fossil specimens and statistical programming exercises

GS 128/228 – Evolution of Terrestrial Ecosystems Winter 2016-2017

- Co-developed and co-taught a new lab curriculum focused on hands-on learning with zoological and paleontological specimens and data analysis exercises

GS 4 – Coevolution of Earth and Life Autumn 2016-2017, Autumn 2018-2019

- Head teaching assistant and lecturer

GS 123/223 – Paleobiology Spring 2015-2016

- Teaching assistant, ran lab sections

GS 4 – Coevolution of Earth and Life Spring 2014-2015, Winter 2015-2016

- Teaching assistant and lecturer

MENTORING EXPERIENCE

Elizabeth Millsap, Undergraduate Student (University of Nebraska-Lincoln)	2020 – 2022
Matthew Craffey, Graduate Student (University of Nebraska-Lincoln)	2019 – 2024
Katherine Jordan, Graduate Student (University of Nebraska-Lincoln)	2019 – 2024
Alexandria Shupinski, Graduate Student (University of Nebraska-Lincoln)	2019 – 2024
Niza Contreras, Undergraduate Student (Stanford University)	2018 – 2020
Christianne Ormsby, Undergraduate Student (San Diego State University)	2018
Elsie Carrillo, Middle School Teacher (San Jose, CA)	2018
Adam Kazerounian, High School Student (Danville, CA)	2017
Margaret Deng, Undergraduate Student (University of California, San Diego)	2016
Alexander Ivanov, High School Student (Palo Alto, CA)	2016
Matthew Benjamin, Undergraduate Student (Stanford University)	2015 – 2016

PROFESSIONAL DEVELOPMENT

Scientific Communication Advances Research Excellence	2022
Advancing Learning Through Evidence-Based STEM Teaching	2022
Inclusive STEM Teaching Project	2021
Transforming Your Research Into Teaching, UNL/CIRTL	2021
NextProf Science, University of Michigan LSA	2021

Writing Winning Grant Proposals (UNL and Grant Writers' Seminars & Workshops)	2021
Pedagogy and Technology in the Modern Paleontology Classroom (Paleontological Society Short Course)	2018
Preparing Future Professors, Stanford University VPGE	2017 – 2018

SERVICE AND OUTREACH

<i>Social Media Coordinator</i> , Paleontological Society	2021 – Present
<i>Board of Directors</i> , Yale Undergraduate Jazz Collective	2020 – Present
<i>Web Team Lead</i> , Learning Unlimited Inc.	2018 – Present
<i>Volunteer</i> , Geokids Program	2016 – 2019
<i>Field Trip Leader</i> , Summer Undergraduate Research in Geoscience and Engineering	2016
<i>President</i> , Graduate Students Advisory Committee	2016 – 2018
<i>Co-Director</i> , Stanford Splash	2016
<i>Geological Sciences Representative</i> , Graduate Students Advisory Committee	2015 – 2018
<i>Technology and Web Chair</i> , Stanford Splash	2015 – 2019
<i>New Graduate Student Orientation Coordinator</i> , Geological Sciences Dep't	2015 – 2017
<i>Social Events Coordinator</i> , Stanford School of Earth, Energy, and Env. Sciences	2014 – 2018
<i>Communications Chair</i> , Stanford Splash	2014 – 2018
<i>Volunteer Teacher of Evolution and Geology</i> , Splash @ Yale/Stanford Splash	2013 – 2019
<i>Beat Reporter</i> , Yale Scientific Magazine	2012 – 2014
<i>President</i> , Club Geo, Yale University	2012 – 2013
<i>"Meet the Scientist" Paleontology Educator</i> , Yale Peabody Museum	2012 – 2013

PEER REVIEW EXPERIENCE

<i>Biology Letters</i>	<i>Nature Communications</i>
<i>Cambridge Elements</i>	<i>Nature Ecology & Evolution</i>
<i>Cambridge Prisms: Extinction</i>	<i>Palaeontology</i>
<i>Current Biology</i>	<i>Proceedings of the National Academy of Sciences</i>
<i>Ecology and Evolution</i>	<i>Proceedings of the Royal Society B: Biological Sciences</i>
<i>Ecology Letters</i>	<i>Science Advances</i>
<i>Evolution</i>	<i>Systematic Biology</i>
<i>Global Ecology and Biogeography</i>	<i>The American Naturalist</i>
<i>Journal of Mammalogy</i>	<i>The R Journal</i>
<i>Methods in Ecology and Evolution</i>	

SKILLS

- Programming, data analysis, data visualization
 - R and Python (advanced)
 - SAS, C/C++, and Fortran (proficient)
- Phylogenetic and cladistic analysis, systematics, phylogenetic comparative methods
- Paleobiology, macroecology, historical geology, comparative biology
- Fossil preparation, conservation, and preservation in the field and the lab
- CT Scan analysis (fossil and modern specimens) using VG Studio MAX

- Computer processing (Microsoft Office, etc.), audio/video editing, Adobe Photoshop

MEMBERSHIPS

Society of Vertebrate Paleontology	2022 – Present
American Society of Naturalists	2017 – Present
Society of Systematic Biologists	2014 – Present
Society for the Study of Evolution	2014 – Present
The Paleontological Society	2011 – Present
Geological Society of America	2011 – Present

CAREER GOALS

- Professor of paleobiology, evolutionary biology, macroecology, or related field
- Continued research, teaching, and outreach
- Advisement of graduate and undergraduate students