Curriculum Vitae
Julia Allison Clarke

Education:

2002	Ph.D.	Yale University (Department of Geology and Geophysics)
1995	B.A.	Brown University (Geology-Biology & Comparative Literature)

•*magna cum laude, Phi Beta Kappa, Sigma Xi*

Current Appointments:

(2023-) John A. and Katherine G. Jackson Chair in Geobiology
(2018-) Howard Hughes Medical Institute (HHMI)Professor
(2016-) Professor, Jackson School of Geosciences, The University of Texas at Austin.
(2014-) Ecology and Evolutionary Biology, Graduate Faculty, The University of Texas at Austin
(2008-) Research Associate, Dept. of Geology, Field Museum of Natural History
(2004-) Research Associate, Div. of Paleontology, American Museum of Natural History

Previous Appointments:

(2024-2025) Fellow, Institute for Advanced Study, Berlin; Wissenschaftskolleg zu Berlin
(2021-2024) Associate Dean, Jackson School of Geosciences
(2020-2021) Associate Chair, Dept. of Geological Sciences
(2018-2023) John A. Wilson Centennial Professor in Paleontology, Jackson School of Geosciences, The University of Texas at Austin.
(Jan.2009-2016) Associate Professor and John A. Wilson Centennial Fellow in Paleontology, Jackson School of Geosciences, The University of Texas at Austin.
(2004-2008; Dec.) Assistant Professor, Dept. of Marine, Earth, and Atmospheric Sciences, North Carolina State University
(2004-2008) Research Curator, Dept. of Paleontology, North Carolina Museum of Natural Sciences
(2002-2004) Frick Postdoctoral Fellow, Div. of Paleontology, American Museum of Natural History
(1995-1996) Fulbright Research Fellow, United States Department of State, "Naturalizing the Nation: Scientific Travel Writing and Nationalism in 19th Century Argentina."

Honors:

The Anatomical Society, Honorary Fellow (Hon. FAS, 2020)
" This high award is distinct from the Fellowship. It is given to mark your long association with the Society and confers on you the privileges of membership of the Society… and entry into a select group of former Presidents and esteemed colleagues."
American Ornithological Society, Elected Fellow (2019)
Outstanding Educator Award, Jackson School of Geoscience (2019)
Royal Society of Biology, Fellow, (FRSB) (2018)
American Ornithological Society, Elected Member (2017).
Outstanding Service Award, Jackson School of Geoscience (2017)
Shared with 7 others for our work on the status of women.
Knebel Distinguished Graduate Teaching Award, Jackson School of Geosciences (2017)
Humboldt Research Prize (2016)
Provost's Teaching Fellow, University of Texas at Austin (2016)
Outstanding Research Award, Jackson School of Geoscience (2013)
Knebel Distinguished Undergraduate Teaching Award, Jackson School of Geosciences (2012)
Gigapan Science Outreach Fellow, Fine Foundation/NASA/Carnegie Mellon Robotics (2010)
National Geographic Society, Explorer (2008-)
Outstanding Faculty Engaged in Outreach and Extension, North Carolina State University (2008)

G.G. Simpson Award, Yale University, best paper among recent alumni or current graduate students concerning evolution and the fossil record (2006)
Argentine Fulbright Commission, 50th anniversary volume, distinguished alumna (2006).
Orville Prize, Yale University Department of Geology and Geophysics, best dissertation (2001)
G.G. Simpson Award, Yale University (2001)
Hutchinson Prize Fellowship, Yale Institute for Biospheric Studies (2000)
Estwing Hammer Prize, Yale University, outstanding research in Geology (2000)
Henry Gardiner Ferguson Fellowship in Geology, Yale University (1999)
National Science Foundation, Graduate Student Fellowship (1997-2000)
Samuel T. Arnold Fellowship, Brown University, for undergraduate achievement and an original research project ($15,000; declined to accept Fulbright Grant; 1995).

Research Grants and Fellowships:

2026-2028 **NSF** EAR RISE 2629253 Mentoring Innovation Network: Building Conference-Based Mentoring Infrastructure for Early-Career Development in Paleontology. **(Clarke PI,** Papendieck coPI: $**199,997**).

2023-2025 **Howard Hughes Medical Institute, Professor Program**, **Challenge Grant** Collaboration with the Geological Society of America (GSA) On To The Future (OTF) Program. **(Clarke PI; $66,800).**

2018-2023(NCE) **Howard Hughes Medical Institute**, **Grant #GT10473 Professor Program.** "Teaching Curiosity to question through an integrated curriculum focused on tiered mentorship and experiential learning". **$1,000,000 over 5 years** (**Clarke sole PI; COVID Impact NCE 2 years to 2025**).Includes research support (~$250K) and funding of students and postdocs working on the studied models.

2014-2018(NCE) **Gordon and Betty Moore Foundation**. Grant 4498. The evolution of avian vocalization: an integrative approach utilizing the fossil record, physiology of vocal behavior, and comparative transcriptomics (**Clarke PI $740,000+65,000 supplement in 2017**, with T. Riede, F. Goller, and C. Tabin, subawards).

2014-2018 **NSF** EAR 1355292 Collaborative Research: Phylogenomics of palaeognathous birds and understanding the evolution of flightlessness. (**PI, $376,610 to Clarke**, with Davis, Clamp, Edwards [Lead PI], A. Baker; total award $950,000).

2013-2017 **NSF** EAR 1251922 Collaborative Research: The mechanisms and evolution of plumage color in birds and other dinosaurs. **(PI $164,003**; with M. Shawkey [Lead PI] and L. D'Alba: total award $350,000).

2012-2016 **NSF** OPP ANT 1141820 "Collaborative Research: Late Cretaceous-Paleogene Vertebrates from Antarctica: Implications for Paleobiogeography, Paleoenvironment, and Extinction in Polar Gondwana. (**PI: $70,872 to Clarke** with M. Lamanna [Lead PI}, R. Mcphee, K Claesson, and P. O'Connor; Total award ~$280,000).

2010-2014 **NSF** DEB 0949897 Collaborative Research: Wings to Flippers - Phylogenetics, character acquisition, and feather biomechanics in the evolution of wing-propelled diving (**PI [Lead]: $241.279**; with K. Middleton, D. Ksepka; Total award ~$470,000).NCE 2013-Oct. 2014.

2011 Madrono Ranch, Environmental Writing Residency, Fellowship. Worked on chapter for the Princeton Guide to Evolution.

2009-2010 **National Geographic Society**, Committee for Research and Exploration, Interpreting the color of feathers in fossil birds and dinosaurs. Senior Personnel with D. Briggs, J. Vinther (Richard Prum: PI, $15,000).

2009-2010 UK Royal Society International Joint Project: Chinese feathered dinosaurs and the evolution of bipedalism. Senior personnel (J. Hutchinson, PI: $~12,000).

2007-2011 **NSF** EAR 0938199 (0719758) Collaborative Research: Integrated study of an exceptional avifauna from the Eocene Green River Formation: new data on avian evolution and taphonomy (**PI [Lead], $150,000**) with D. Briggs, L. Grande and R. Prum (Total award: ~$270,000). REU supplement in 2009 ($10,000). NCE: 2010-2011.

2007-2010 **NSF** OPP 0927341 New approaches and rapid assessment of key avian fossils from the Cretaceous of Antarctica (SGER; **Lead PI**, **$34,800** with Judd Case, CoI)

2007-2009 **NSF** OISE supplement to above OPP award for minority student participation in research on Mesozoic ornithurine birds in China (**Lead PI, $7,000**).

2007- 2008 **National Geographic Society**, Expedition Council, New Insight into Penguin Evolution and Biogeography **(PI, $20,000)**

2006- 2007 **NSF** OISE US-Peru Planning Visit: Collaborative Research on Penguin Evolution and Biogeography 0621574 **(PI, $4,900).**

2006-2008 **National Center for Evolutionary Synthesis**: CLOCKWORK: a triangle working group redefining interfaces for molecular biology and paleontology **(PI, ~$10,000).**

2005-2006 **National Geographic Society**, Exploration Fund (Co-investigator, Zhou, Clarke, Zhang): $30,000 (including $10,000 cost sharing, IVPP; $5,000 NCMNS) for fieldwork in Gansu Province, PRC.

2004-2006 **NSF** OPP 0408308 Morphological study of a key avian fossil from Antarctica: new data provided by X-ray computed tomography and histology (SGER; PI, $13,617).

2002 AAAS WISC Program: Collaborative Research in China (**PI**, $4,990)
2002-2007 NSF ATOL "Collaborative Research: Archosaur Phylogeny - A Total Evidence Approach at Fine Taxonomic Levels" Senior Personnel (Norell PI: $1,733,737.00).
2002 American Museum of Natural History, Frick Fund
2000 Yale University, Council on East Asia Studies
1999, 2000 American Museum of Natural History, Chapman Grant
1999 Geological Society of America
1999 Explorers Club, Exploration Fund Grant
1999 Yale University, Enders Fellowship
1999 Field Museum of Natural History, Visiting Scientist Fellowship
1998 American Museum of Natural History, Research Internship

1994 Ford Foundation, Travel Grant
1993, 1994 Brown University, Undergraduate Teaching/ Research Assistantships
1993, 1995 Brown University, "CAP" Fellowships for research in-aid of curricular development.

Technical Publications and Manuscripts in Press: ^ postdoctoral advisees, * student advisees
153 since 2000; 16 Nature or Science (11+ as first or corresponding author), 4, 100+ page monographs.
H index: 54, total citations: 10023. Source: Google Citations.

153. *Ibarra, B, *C. Urban, ^L. Legendre and **J. A. Clarke.** 2026. Syrinx anatomy and vocalizations in New World vultures (Aves: Cathartidae): Implications for avian vocal evolution. *Journal of Anatomy. Undergraduate first author. Co-corresponding author.* ***https://doi.org/10.1111/joa.70217***

152. ^Legendre L. **Clarke, JA.** 2026. The evolution of the eufalconimorph syrinx informed by phylogenetic comparative methods and diceCT imaging of falconiforms, parrots, and passerines. *Zoological Journal of the Linnean Society. 207(2), , https://doi.org/10.1093/zoolinnean/zlag104*

151. Young, M. T. and **Clarke, J. A**. .2026. 'Key advances' in descriptive anatomy, taxonomy/nomenclature, and interpretative palaeobiology: an outline and perspective. *Historical Biology,* 38(6), pp. 1707–1712.

150. Jo H., ^J Jung, M. Kim, M. Huh, J**.A. Clarke** 2026. Description of the first Mesozoic bird eggs from Korea and a new mid-Cretaceous theropod-dominant egg locality. Palaeogeography, Palaeoclimatology, Palaeoecology. *co-corresponding author. Volume 689, 113653. https://doi.org/10.1016/j.palaeo.2026.113653.*

149. ^Jung J., M. Kim, H. Jo, **J.A. Clarke.** *2026.* A new dinosaur species from Korea and its implications for early-diverging ornithopod diversity. *Fossil Record. 29(1): 87-113. co-corresponding author.*

148. *Bilger H.T., N. M. Kime, P. S. Wilson, **J. A. Clarke**, M.J. Ryan, 2026. Form and function in the developing túngara frog (*Physalaemus pustulosus*) larynx. *Bioacoustics*. 2026, 35 (2) 175–189 https://doi.org/10.1080/09524622.2026.2614675

147. *Li. Z., *G. Musser, A.Aase, **J. A. Clarke**. 2025. A new raptorial bird from the lower Eocene Green River Formation of North America. *Contributions from the Museum of Paleontology, University of Michigan*. *Lance Grande Festschrift Volume.* Vol. 37, No. 3. 69–78

146. Li, X. S. Bi, **J. A. Clarke**, Z. Li, X. Zh, Q. Liu, Y. Peng, L. Zhao, Z. Li, Y. Pan. 2025. High mammalian melanosome diversity exhibits weak correlation with color and environmental variables. *Science Advances* 11 (43), eadw8707

145. Rosen AM, **Clarke JA**, Eighmey J. Farquhar J, S. Dalantai Y. Tserendagva. 2025. Neolithic Bird Folk of the Mongolian Gobi Desert: Climate Change, Ecological Knowledge and Intangible Heritage in an Ancient Persistent Place. *Special Issue- the Archaeology of Climate Change*. ***2025**, 8(10), 433;https://doi.org/10.3390/heritage8100433*

144. *Torres, C.R. **J.A. Clarke**, J.R. Groenke, M.C. Lamanna, R. D. E. MacPhee, *G. M. Musser, E. M. Roberts, P. M. O'Connor. 2025. Antarctic crown bird reveals ecological shift across end Cretaceous mass extinction. *Nature*. 638, 146–151. https://doi.org/10.1038/s41586-024-08390-0 *co-corresponding author.*

143. Li, Z. J Hu, TA Stidham, M Ye, M Wang, Y Pan, T Zhao, J Li, Z Zhou, **JA. Clarke.** 2025. Iridescent structural coloration in a crested Cretaceous enantiornithine bird from the Jehol Biota. *eLife* 14, RP103628

142. Li, R , L. D'Alba, G. Debruyn , J.L. Dobson , C-F.Zhou, **J. A. Clarke**, J. Vinther , Q. Li, M. D. Shawkey. 2025. New Mesozoic mammaliaforms illuminate the origins of pelage coloration. *Science 387, 1193-1198(2025). DOI:10.1126/science.ads9734*

141. *Garza HK, Catlos EJ, Lapen TJ, **Clarke JA**, Brookfield ME. 2025. New U-Pb constraints and geochemistry of the East Kirkton Quarry, Scotland: Implications for early tetrapod evolution in the Carboniferous. *PLoS ONE* 20(4): e0321714. https://doi.org/10.1371/journal.pone.0321714

140. G.Mayr, V. L. De Pietri, *J. Proffitt, J. C. Blokland, **J.A. Clarke**, L. Love, Al A. Mannering, E. M. Crouch, C. Reid, R. P. Scofield. 2025. Multiple exceptionally preserved fossils from the Paleocene Waipara Greensand inform the diversity of the oldest stem group Sphenisciformes and the formation of their diving adaptations. *Zoological Journal of the Linnean Society 204 (4), zlaf080*

139. Crane, A., Benito, J., Chen, A., Musser, G*., Torres, C.R*., **Clarke, J.A.,** Lautenschlager, S., Ksepka, D.T. and Field, D.J., 2025. Taphonomic damage obfuscates interpretation of the retroarticular region of the *Asteriornis* mandible. *Geobios* 90, 31-43.

138. *Musser, G. and **J.A. Clarke.** 2024. A new Paleogene fossil and dataset for waterfowl (Aves: Anseriformes) clarify phylogeny, ecological evolution, and avian evolution at the K-Pg Boundary. *PLOS One*. and *bioRxiv*, 2022.11. 23.517648.

137. Ellins K., ^Legendre, L., Papendieck A., and **J.A.Clarke.** 2024. Geoscience Ambassadors: Transforming Relationships to the Geosciences Through Student-crafted Stories and Interventions. *Journal of Geoscience Education*. UJGE-2022-0065.

136. ^Legendre L.J., CA. ^Rodríguez-Saltos, ^CM Eliason, **JA Clarke.** 2024. Evolution of the syrinx of Apodiformes, including the vocal-learning Trochilidae (Aves: Strisores). *Zoological Journal of the Linnean Society*, zlae001. *https://doi.org/10.1093/zoolinnean/zlae001*.

135. Longtine, C., ^C. M. Eliason, C. Lee, D. Mishkind, *M.Chiappone, F. Goller, J. Love, E. P. Kingsley, **J. A. Clarke,** C. J. Tabin. 2024. Homology and the evolution of vocal folds in the novel avian voice box. *Current Biology*. 34 (3), 461-472. e7 https://doi.org/10.1016/j.cub.2023.12.013 *Co-corresponding author.*

134. Papendieck A., and **J.A.Clarke.** 2024. Curiosity to question: Tracing productive engagement in an interdisciplinary course-based research experience. 1-42pp. *Journal of the Learning Sciences*. Invited to Special Volume on interdisciplinary CURES. DOI: 10.1080/10508406.2024.2347597

133.*Chiappone, M. Rodriguez C.^, Legendre^, L., Z. Li*, and **J. A.Clarke**. 2024. Ostrich (*Struthio camelus*) syrinx morphology and vocal repertoire across postnatal ontogeny and sex: implications for vocal evolution in birds. *Journal of Anatomy. Undergraduate student lead- Jackson Scholars Thesis. Cover.* **https://doi.org/10.1111/joa.13992**

132. *Urban C. A, L. J ^Legendre, **J. A Clarke.** 2023. Description of natal down of the ostrich (Struthio camelus) and comparison with common quail (*Coturnix coturnix*): developmental and

evolutionary implications. *Journal of Anatomy 243 (6), 1007-1023. Undergraduate student lead- Plan II Honors Thesis.; Co-corresponding author.*

131. *Davis, S.N., Soto-Acuña, S., Fernández, A, J. R.A., Leppe, M.A., D. Rubilar, Vargas, A.O., and **Clarke, J.A.** 2023. New records of Theropoda from a Late Cretaceous (Campanian – Maastrichtian) locality in the Magallanes Basin, Patagonia, and insights into End Cretaceous theropod diversity. *Journal of South American Earth Sciences. 122, 104163.* https://doi.org/10.1016/j.jsames.2022.104163

130. ^Eliason C., **Clarke, J.A.,** and E. Amador Kane. 2023. Wrinkle nanostructures generate diffractive blue color in great argus (*Argusianus argus*) flight feathers. *iScience 26.1.* https://doi.org/10.1016/j.isci.2022.105912

129. Grealy et al. (20 authors including **JA. Clarke** and ^L. Legendre) 2023. Molecular exploration of fossil eggshell uncovers hidden lineage of giant extinct bird. *Nature Communications.* 14, 914 (2023). https://doi.org/10.1038/s41467-023-36405-3

128. Demarchi, B. Mackie M., Li, Z., Deng, T, M. J. Collins & **J.A. Clarke**. 2023. Survival of mineral-bound peptides into the Miocene. *eLife.* 11, e82849. https://elifesciences.org/articles/82849

127. ^Eliason, C. *Proffitt, J. and **J.A. Clarke**. 2023. Early diversification of avian limb morphology and the role of modularity in the locomotor evolution of crown birds. *Evolution.* 77 (2), 342-354. https://doi.org/10.1093/evolut/qpac039

126. Roberts, E M., O'Connor, P. M., **Clarke, J. A.,** Slotznick, S. P., Placzek, C. J., Tobin, T., Hannaford, S., Carey, O., T., Jinnah, Z A., Claeson, K. M.j, Salisbury, S.k, Kirschvink, J. l, Pirrie, P. and M. Lamanna, 2023. New age constraints support a K/Pg boundary interval on Vega Island, Antarctica: Implications for latest Cretaceous vertebrates and paleoenvironments. *GSA Bulletin. 135 (3-4), 867-885* https://doi.org/10.1130/B36422.1

125. ^Legendre, L. S. Choi, **J.A. Clarke**. 2022. The diverse terminology and complex evolution of reptile eggshell microstructure. *Journal of Anatomy* 241 (3), 641-666. https://doi.org/10.1111/joa.13723

124. ^Rodríguez-Saltos, C. A., Duque, F., **J.A. Clarke**. 2022. Precise and nonscalar timing of intervals in a bird vocalization. *Animal Behavior.* https://doi.org/10.1016/j.anbehav.2022.06.004

123. Demarchi B., Stiller J. 2, Grealy A., Mackie M.5, Deng, Y, Gilbert T, **Clarke J.A.** ^Legendre, L.J, Boano, R., Sicheritz-Ponten, T Magee J., Zhang G., Bunce M., Collins M.J., Miller G. 2022. Ancient proteins resolve controversy over the identity of *Genyornis* eggshell. *Proceedings of the National Academy of Sciences, USA. 119 (43), e2109326119.*

122. *N. A. Smith, K.L.Koeller, **J.A. Clarke**, D. T. Ksepka, J.S. Mitchell, A. Nabavizadeh, RC. Ridgley, LM.Witmer. 2022. Convergent evolution in dippers (Aves, Cinclidae): The only wing-propelled diving songbirds. *Anatomical Record 305 (7), 1563-1591.* https://doi.org/10.1002/ar.24820

121. *Li. Z. Wang. M., T. Stidham. **Clarke J.A.**, Zhou, Z. 2022. Novel evolution of a hyper-elongated tongue in a Cretaceous enantiornithine from China and the evolution of the hyolingual apparatus and feeding in birds. Journal of Anatomy. https://doi.org/10.1111/joa.13588 *Completed as part of a PhD in my lab.*

120. *Davis, S. and **J.A. Clarke.** 2022. Estimating the distribution of carotenoid coloration in skin and integumentary structures of birds and extinct dinosaurs. *Evolution. 76 (1), 42-57.*

119. M Heingård, *G Musser, SA Hall, **JA Clarke.** 2021. New Remains of *Scandiavis mikkelseni* Inform Avian Phylogenetic Relationships and Brain Evolution. *Diversity* 13 (12), 651

118. *Torres, C. M. Norell**, J.A. Clarke.** 2021. A uniquely avian reorganization of the skull and brain left other dinosaurs behind. *Science Advances. 7 (31), eabg7099*

NPR Science Friday. Others,

117. ^Legendre, L. and **J.A. Clarke.** 2021. Shifts in eggshell thickness related to changes in locomotor ecology in dinosaurs. *Evolution*. https://doi.org/10.1111/evo.14245

116. *Bilger, H.T., *Hood, S., Clarke, J.A. 2020. Guidelines for removal, preservation, and CT imaging of the syrinx, the avian vocal organ. *Wilson Journal of Ornithology*. 132 (3), 628-638 *Undergraduate co-author.*

115. Hedrick, B. P., Heberling, J. M., Meineke, E.+, Turner, K. G., Grassa, C. J., Park, D.S. Kennedy, **J.A., Clarke,** J., Cook, D. Blackburn, J., Edwards, S. V., Davis, C. 2020. Digitization and the future of natural history collections. *Bioscience*. https://doi.org/10.1093/biosci/biz163

114. ^Legendre, L. Rubilar, D. Otero, R., *Davis, S. * Musser, G. Vargas, A., and **J. A. Clarke.** 2020. A giant soft shelled egg from the late Cretaceous of Antarctica. *Nature*. 583 (7816), 411-414. [discusses the evolution of amniote egg structure as well as the largest soft shell egg known]. *Corresponding author.*

New York Times. NPR Science Friday. BBC. Others.

113. ^Eliason, C. and **J.A. Clarke.** 2020. Cassowary gloss and a novel form of structural color in birds. *Science Advances, 6 (20), eaba018.*

NPR Science Friday. other.

112. Ksepka D.T., A.M. Balanoff, *N. A. Smith, G.S. Bever, B.S. Bhullar, E. Bourdon, E. L. Braun, J. G. Burleigh, **J. A. Clarke**, M. W. Colbert, J. R. Corfield, F. J. Degrange, V.L. De Pietri, C.M. Early, D.J. Field, P.M. Gignac, M. E.Leone Gold, R. T. Kimball, S. Kawabe, L. Lefebvre, J. Marugán-Lobón, C.S. Mongle, A. Morhardt, M. A. Norell, R. C. Ridgely, R. S. Rothman, R. P.Scofield, C.P. Tambussi, *C. R. Torres, M. van Tuinen, S. A. Walsh, A. Watanabe, L. M. Witmer, A.K. Wright, L. E. Zanno, E. D. Jarvis, J. B. Smaers, 2020. Tempo and Pattern of Avian Brain Size Evolution, *Current Biology,* https://doi.org/10.1016/j.cub.2020.03.060.

111. *Musser G. and **J.A. Clarke**. 2020. An exceptionally preserved specimen from the Green River Formation elucidates complex phenotypic evolution in Gruiformes and Charadriiformes. *Frontiers in Ecology and Evolution.*8: 326.

110. *Davis, S. *C. R. Torres, *G. M. Musser, *J. V. Proffitt, ^N. Crouch, E. L. Lundelius, M. Lamanna, **J. A. Clarke.** 2020. New mammalian and avian records from the Late Eocene La Meseta Formation of Seymour Island, Antarctica. *PeerJ. 8, e8268.*

109. **Clarke, J.A.** and *C.R. Torres, 2020. The origin of birds. *In* The Encyclopedia of Geology. Second Edition. Eds. D. Alderton and S. Elias. *Elsevier References in Earth Systems and Environmental Science. vol.[3], pp. 247-255. United Kingdom.*

108. *Musser, G., *Li, Z. and **J.A. Clarke.** 2020. The first remains of Eogruidae (Aves, Gruiformes) from the late Miocene Liushu Formation of the Linxia Basin, Gansu, China. *Auk*. 137 (1), ukz067

107. Bakker, F.T A.Antonelli, **J.A. Clarke,** J. A Cook, S.V Edwards, PGP Ericson, S. Faurby, N. Ferrand, M. Gelang, R. G Gillespie, M. Irestedt, K.Lundin, E. Larsson, P.Matos-Maraví, J.Müller, T. von Proschwitz, G. K Roderick, A. Schliep, N. Wahlberg, J. Wiedenhoeft, M. Källersjö1 2020. The Global Museum: natural history collections and the future of evolutionary biology and public education. *PeerJ.* *https://peerj.com/articles/8225/*

106.^Crouch, N. and **J.A. Clarke**, 2020. A re-evaluation of the chemical composition of avian urinary excreta. *Journal of Ornithology*, 1-8. *161 (1), 17-24*

105. **Clarke, J.A.** 2019. News and Views: Genomic mechanisms for the evolution of flightlessness in steamer ducks: *Nature*. 572 (7768), 182-184. *Invited*.

104. **Clarke, J. A.** Mindell, D. K. de Queiroz, M. Hanson, M. A. Norell and J. A. Gauthier. 2020. *Aves* C. Linnaeus 1758. 1247-1253 pp. In: *Phylonyms and the Code of Phylogenetic Nomenclature. Cantino, P.* and deQuieroz K. eds. University of California Press, Berkeley CA.

103. ^Eliason, C.M., S. Edwards, **J. A. Clarke.** 2019. Pipelines and methods for visualization and analysis of phenomic data. *Methods in Ecology and Evolution.* **https://doi.org/10.1111/2041-210X.13217**

102. George, S. *Davis. S. Leppe. M., Hernandez R., Martinez, L. Horton, B. and **J. A. Clarke.** 2019. Chronology of deposition and unconformity development across the Cretaceous-Paleogene boundary, Magallanes-Austral Basin, Patagonian Andes. *Journal of South American Earth Sciences*. 97, 102237

101. Acosta Hospitaleche, C., Jadwiszczak, **J.A. Clarke** and P., Cenizo, M. 2019. The fossil record of birds from the James Ross Basin, West Antarctica. *Advances in Polar Science.* Special volume. 30 (3), 250-272.

100. West, A. R., *Torres, C.R., Case J., **Clarke, J. A.** O'Connor, P., and M. Lamanna. 2019. An avian femur from the Late Cretaceous of Vega Island, Antarctic Peninsula: removing the record of cursorial landbirds from the Mesozoic of Antarctica. *PeerJ 7, e7231*

99. Degrange, F.J. *Eddy D., Puerta P., **J.A. Clarke.** 2019. New skull remains of *Phorusrhacos longissimus* (Aves, Cariamiformes) from the Miocene of Argentina: implications for the morphology of Phorusrhacidae. *Journal of Paleontology* 93 (6), 1221-1233

98. *Hood, S. *Torres, C, Norell, M. **JA. Clarke**. 2019. New fossil birds from the earliest Eocene of Mongolia. *American Museum Novitates.* 3934, 1-24 Undergraduate lead author. (Corresponding Author).

97. Lamanna M.C., J. A. Case, P. M. O'Connor, R.C. Ely, V. M. Arbour, E. M. Roberts, **J. A. Clarke**, D. E. Malinzak, A.R. West, and S. W. Salisbury. 2019. Late Cretaceous non-avian dinosaurs from the James Ross Basin, Antarctica: description of new material, updated synthesis, Biostratigraphy, And Paleobiogeography. *Advances in Polar Science.* Special volume.

96. ^Crouch, N. and **J.A. Clarke,** 2019. Body size evolution in palaeognath birds is consistent with Neogene cooling-linked gigantism. *Palaeogeography, Palaeoclimatology, Palaeoecology.* https://doi.org/10.1016/j.palaeo.2019.05.046 (Corresponding Author).

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Clarke J.A. 2019. What is the last question? *The 2018 Annual Edge Question.* John Brockman Ed. Harper Perennial.

Clarke J.A. 2015. "Machine thought will never have more than a metaphorical relationship with human thought" *in* "What to thinking about Machines that Think. *The 2015 Annual Edge Question*. John Brockman. Harper Perennial. 576pp.

Clarke J.A. 2014. "Urvogel" *in* "What scientific idea is ready for retirement". The 2014 Annual Edge Question. Published in the This Idea Must Die. Ed., John Brockman. New York, Harper Perennial.592pp. (*Invited*). *My contribution to this volume was highlighted in New Scientist 3/2015.*

Book reviews and other:

Clarke J.A. 2022. Review of The Rise and Reign of Mammals. *The Times Literary Supplement.* Nov.

Clarke J.A. 2019. Review of the Dinosaurs Rediscovered. *The Times Literary Supplement.* Sept. 25 edition. Invited.

Clarke J.A. 2017. Review of Birds of Stone: Chinese Avian Fossils from the Age of Dinosaurs Luis M. Chiappe and Meng Qingjin, 2016. Johns Hopkins University Press, Baltimore*, J. Field Ornithol.,* 88: 208–209. doi:10.1111/jofo.12202

Clarke J.A. 2010**.** Review of G. Mayr's *Paleogene Birds*. *Wilson Journal of Ornithology.*

Clarke J.A. 2003. Review of Chiappe and Witmer: *Mesozoic birds: above the heads of dinosaurs.* Journal of Paleontology. *77*: 822-823

Clarke J.A. 2002. The Morphology and Taxonomy of *Ichthyornis* Marsh and the Phylogenetic Relationships of Basal Ornithurae (535pp.). Doctoral Diss., Yale University.

Clarke, J.A. 1998. Evolution's flight of fancy: the feathered dinosaurs of Liaoning. Yale China Review 6(2): 3-6.

Science Education:

2020-2021 Scientific Advisor, OpenSciEd Program. The program is funded by the Carnegie Corporation of New York, Bill and Melinda Gates Foundation, Shusterman Family Foundation, and Hewlett Foundation with support from 10 states across the country. Advising on content for a science unit to be taught to middle school students across the country. The unit focuses on natural selection and common ancestry and features my science.

2022. Invited submission to a Special Issue of the Journal of the Learning Sciences: Beyond disciplinary engagement: Researching the ecologies of interdisciplinary learning on Curiosity to Question (CtQ) inquiry course model. For. Jan. 2023. with A. Papendieck, L. Legendre, C. Elliason.

AGU 2022.Cultivating Transformational Science Identities in a Geoscience Ambassadors Program. Adam Papendieck, Katherine Ellins, Lucas Legendre and Julia Clarke, Associated manuscript under submittal.

Earth Educators Rendezvous Presentation: Development of Socially and Ethically Articulate Science Identities in a Broader Impacts of Science Course. Adam Papendieck*, Flávio Azevedo, Julia Clarke.

Peer-reviewed extended abstracts on my Curiosity to Question (CtQ) inquiry course model published in the 2018 and 2020 Proceedings of the International Society of the Learning Sciences (ISLS): Learning Scientist A. Papendieck, Lead.

Papendieck, A., Ellins, K. K., & Clarke, J. (2020). Developing a Disciplinarily Diverse Course-based Research Experience: Outcomes and Design Considerations. *Proceedings of the International Conference of the Learning Sciences (ICLS) 2020*. International Conference of the Learning Sciences (ICLS) 2020, Nashville, TN. https://doi.dx.org/10.22318/icls2020.1777

Papendieck, A., Cheah, Y. H., Eliason, C., & Clarke, J. (2018). Mapping Research and Writing Mentorship Assemblages in a Mixed Cohort Course-based Research Experience. In J. Kay & R. Luckin (Eds.), *Proceedings of the International Conference of the Learning Sciences (ICLS) 2018* (Vol. 3, pp. 1361–1363). International Society of the Learning Sciences. https://doi.dx.org/10.22318/cscl2018.1361

•Invited to present the model and co-lead a new workshop called **Creating research-based design principles for interdisciplinary learning** proposed for ISLS 2021.

•Selected to lead a workshop on CtQ at Earth Educator's Rendezvous for EER 2021: **Curiosity to Question: A new model for disciplinarily diverse and inclusive course-based research experiences**.

•HHMI program GeoscienceAmbassadors (GeoscienceAmbassadors.net) workshop also selected for EER: **Storytelling for Change.** with Geoscience Education specialist K.Ellins and A. Papendieck,

•Selected to present the CtQ model in the 2020 ISLS workshop called **Researching the ecologies of interdisciplinary learning.**

Please see public programs and outreach for previous activities.

Invited Workshop Participation: (see Professional Service for those I organized)

2020 UTEMLP Executive Management and Leadership Program
2019 NSF Reintegrating Biology Jumpstart. 4-6 December 2019.
2017 Harvard University, MCZ, NSF BCoN. Next Generation Natural History Collections (Nov.)
2017 Gothenburg Centre for Advanced Studies in Science and Technology: The role of museums in modern evolutionary biology: symposium and working group, Gothenburg, Sweden
2014 Celebrating (NESCent): 10 years of the National Center for Evolutionary Synthesis. Invited as former Operations Committee member.
2014 National Center for Evolutionary Synthesis (NESCent) Catalysis Working Group- Developing Best Practices for Teaching Evolution
2014 NESCent Catalysis Working Group- A Deeper Look into the Avian Brain: Using Modern Imaging to Unlock Ancient Endocasts

2013 NESCent Catalysis Working Group – Methods for the Study of Macroevolution: Combining Fossils and Phylogenies
2006 Fossil and Molecular Estimates of Divergence (FAMED) NESCent Working Group (Oakley, PI) invited participant and liaison from NESCent funded CLOCKWORK working group on which I was PI.
2005 National Center for Evolutionary Synthesis (NESCent). Metadata Modeling Workshop.

Invited Technical Lectures:

2027 Vanderbilt University, Department of Biological Sciences (April).
2026 Plenary, International Ornithological Congress, Merida Mexico (Dec.)
2026 UT Austin, Acoustical Engineering, Seminar (Nov.)
2026 Max Planck Institute, Evolutionary Biology
2026 Yale University, Earth and Planetary Sciences, Symposium (Festschrift) for Jacques Gauthier
2026 UT Center for Brain, Behavior, and Evolution, Seminar Series
2025 Nanjing University (forced to decline)
2025 Museum of Natural History, Paris
2025 Humboldt University, "Matters of Activity" Cluster of Excellence, Berlin
2025 Max Planck Institute, Biological Intelligence
2025 Aukland University, New Zealand
2025 Royal Society of New Zealand, Public
2025 Otago University, New Zealand
2024 Chonnam National University, Gwangju, Korea, Geological Sciences.
2024 Carnegie Museum of Natural History, Public
2024 Allegany College
2024 University of Oklahoma
2024 Burpee Museum of Natural History, Public
2024 Rockford College
2024 Clemson University
2024 Texas Tech University
2023 American Museum of Natural History, Norell Dinosaur Symposium
2023 University of Tennessee, Knoxville, Geosciences
2023 College of Wooster, Ohio, Geological Sciences and Biosciences
2023 Chonnam National University, Gwangju, Korea, Biological Sciences.
2022 American Museum of Natural History, Museum Seminar
2021 Distinctive Voices Lecture, National Academy of Sciences, USA
"Distinctive Voices highlights innovations, discoveries, and emerging issues in an exciting and engaging public forum….learn from some of the best minds in the world —including members of the National Academy of Sciences, the National Academy of Engineering, and the National Academy of Medicine."
2021 The University of Chicago, Dept. of Geological Sciences
2021 Harvard University, Organismic and Evolutionary Biology
2021 Stony Brook University, Ecology and Evolutionary Biology. Public.
2020 Endowed Thomas Condon and George Moore Lectures, Geosciences, Oregon State University.
2020 Yale University, Peabody Museum, Ostrom Lecture. Public.
2020 The University of Utah/Utah Museum of Natural History: Keynote speaker "Dinofest". Public.
2019 American Geophysical Union, invited talk in symposium "250 years of Alexander von Humboldt: Humboldtian Systems Science in the 21st century".

2019 Society of Vertebrate Paleontology, invited talk in symposium: "From molecules to macroevolution: paleobiological applications of vertebrate soft tissue preservation" Brisbane, Aus.
2019 Humboldt Research Foundation, invited keynote in symposium: *Cosmos* at 250 years. Bonn, Germany - Humboldt and Evolutionary Biology.
2019 University of Southern Denmark, Biology Faculty.
2019 University of Turin, Biology Faculty.
2019 Advances in CT Technologies for Life Science and Natural History Collections. Invited keynote YXLON-Museum fur Naturkunde Symposium on Imaging Technology, Berlin
2019 Brain-Behavior Institute, Symposium, The University of Texas at Austin (talk and co-organizer)
2019 National Museum of Natural History, Smithsonian Institution, Deep Time Institute, Symposium on Evolutionary Innovation. Public.
2019 PLATES 30 Symposium, UTIG, "Outstanding question concerning plate tectonics and life"
2019 Carnegie Institution for Science, Embryology Section
2019 University of Oregon, Museum of Natural and Cultural History. Public.
2018 University Javieriana, Dept. of Biology, Bogota, Colombia
2018 Field Museum of Natural History
2018 University of Kansas, Biosciences
2018 Southern Methodist University, Department of Geological Sciences
2018 Carnegie Lectures in Science, Carnegie Institution, Washington DC. Public.
2018 Baylor University, Geological Sciences
2018 Yunnan University, Paleobiology Group, Kunming, PRC
2018 Chinese Academy of Sciences, Institute of Earth Environment, Xi'an, PRC
2018 Northwestern University, Xi'an, PRC
2017 Harvard University, MCZ + NSF BCoN. Next Generation Natural History Collections
2017 University of California at Berkeley, Integrative Biology
2017 Gothenburg Centre for Advanced Studies in Science and Technology: The role of museums in modern evolutionary biology symposium and working group, Gothenburg, Sweden
2017 Freie Universität, Berlin Institute of Biology, Animal Behavior Group. Berlin.
2017 University of Texas at Austin; Engineering, Acoustics Seminar
2017 AAA/Experimental Biology Annual Meeting, invited symposium keynote.
2017 Louisiana State University, Biology Department.
2016 National Association of Science Writers, Science Keynote.
2016 Paleontological Museum of Liaoning & Shenyang Normal University
2015 Brown University, Department of Earth, Environmental and Planetary Sciences
2015 University of Texas, Astrophysics, Symposium Honoring Frank Bash, Closing night speaker.
2015 Museum für Naturkunde, Berlin
2015 British Antarctic Survey, Cambridge
2015 Nanjing University, School of Earth Sciences and Engineering
2015 NSF sponsored symposium: Critical Transitions in the History of Life US-China Workshop, Field Museum of Natural History and the University of Chicago
2015 University of Texas at Austin, Geological Sciences, Deford Technical Sessions
2014 Brown University, Geological Sciences, Research Symposium Honoring Peter Schultz
2014 Society of Vertebrate Paleontology, invited talk in symposium "Putting Fossils on Trees" on tip and molecular divergence dating.
2014 Keynote, International Ornithological Congress, Symposium-Evolution and behavior of waterbird aerial and aquatic flight.
2014 Hokkaido University. Lecture for "Outstanding questions in the evolution of wing propelled diving" Workshop
2014 Northeast Ohio Medical University, Department of Anatomy and Neurobiology.

2014 University of Texas, Department of Ecology and Evolutionary Biology (Appointment Talk for Graduate Faculty)
2013 Denver Museum of Natural History. Public.
2013 Opening Plenary Lecture, American Ornithologists' Union Meetings
2013 Smithsonian Institution, National Museum of Natural History,
2012 University of Texas, Center for Brain, Behavior, and Evolution
2012 Society of Vertebrate Paleontology, invited symposium participation "Phylogenetic and Comparative Paleobiology: New Quantitative Approaches to the Study of Vertebrate Macroevolution"
2012 Peking University, Department of Geosciences
2012 University of Chicago, Committee on Evolutionary Biology
2012 American Museum of Natural History, Richard Gilder Graduate School
2012 St. Edwards University, Department of Biology
2011 Cornell University, Laboratory of Ornithology
2010 Keynote, "Paleontological evidence for the radiation of extant birds" Symposium, International Ornithological Congress, Brazil.
2010 Yale University, Department of Geology and Geophysics, Global Change Seminar.
2009 Yale University, Department of Geology and Geophysics " Future Challenges in the Earth Sciences" Symposium.
2008 Harvard University, Earth and Planetary Sciences
2008 University of Texas, Austin, Jackson School of Geosciences
2008 National Center for Evolutionary Synthesis, Durham, NC
2008 NSF Sponsored Philosophy of Biology Workshop: "Edges and Boundaries," University of Utah
2007 Field Museum of Natural History
2007 George Washington University, Biological Sciences
2007 University of North Carolina, Chapel Hill, Department of Geosciences
2007 North Carolina State University, College of Veterinary Medicine
2006 "Species Names in Phylogenetic Nomenclature" at ISPN II, June 29 - July 2, 2006, Yale University.
2005 Duke University, Biological Sciences
2004 University of Texas, Austin, Department of Geology
2004 University of Iowa, Department of Geology
2004 Duke University, Biological Anthropology and Anatomy
2003 Brown University, Biological Sciences
2003 University of Kansas, Museum of Natural History
2003 North Carolina State University
2002 University of Berlin & Humboldt Museum; funded by German Science Foundation (DFG)
2002 Paleontological Institute of the RAS, Moscow, Russia
2002 Institute of Vertebrate Paleontology and Paleoanthropology, Beijing, China
2000 Field Museum of Natural History

Editorial Service (current in bold)

2025-- Editorial Board, Historical Biology
2020-- Editorial Board, Journal of Anatomy
2012-2020 Editor-in-Chief, Journal of Anatomy
2005-2012 Associate Editor Journal of Anatomy
2018-2021 Associate Editor, Evolution
2017- Associate Editor, Science Advances
2017-2019 Associate Editor, Proceeding of the Royal Society, Series B., Biological Sciences
2013-2019 Associate Editor, Paleobiology

2013-- **Editorial Board, Zoologischer Anzeiger**
2011-2013 Associate Editor, Zoologischer Anzeiger

Other Professional Service:

2025- International Ornithological Congress, Scientific Program Committee
2024 Fulbright Commission, National Review Committee
2023-2025 *On to the Future Student Program*, mentor training and workshop co-designer, Geological Society of America
2023- *Schuchert Award Committee*, The Paleontological Society
2023 *Organizing committee*, Norell Dinosaur Conference, American Museum of Natural History
2022-- *Reviews* for European Research Council, Swiss National Science Foundation, Marie Curie and other international agencies.
2021-2023 *Executive Committee*, HHMI Society of Professors (elected)
2019-2020 *Chair*, Nominations Committee, Paleontological Society
2019 *External Review Advisory Committee,* Museum fur Naturkunde, Berlin
2019 *Organizing committee,* HHMI Professors Annual Meeting
2019 *Co-organizer*, Sound and sound makers: Brain/ Behavior Institute symposium, UT
2009-2020 *Romer Prize Committee*, Society of Vertebrate Paleontology
2017--2020 *Nominations Committee*, Paleontological Society
2016 *Co-convener* of an ICVM (International Congress of Vertebrate Morphology) Symposium on enhanced contrast CT methods.
2015- (ongoing) *Cohen Prize Committee*, Society of Vertebrate Paleontology
2015 *Co-convener* of NSF sponsored international workshop on enhanced contrast CT methods held at UT.
2014 National Academies of Science (NAS)"Town hall" on priorities and challenges on the future of the US Antarctic Program
2014 *Symposium Convener*, International Ornithological Congress, with Yutaka Watanuki "Evolution and behavior of aerial and aquatic flight"
2013 *Invited Symposium Convener*, American Ornithologists' Union: "Assembly of the North American Avifauna"
2011-2014 *Media Response Team*, Society of Vertebrate Paleontology
2010 *Invited Symposium Co-Convener*, "Paleontological evidence for the radiation of extant birds" International Ornithological Congress, Brazil.
2010--2011 *President*, International Society of Phylogenetic Nomenclature, Past President 2012-2013 ex office member of the Executive Committee.
2008-2011 *Executive Committee,* Member-At-Large, Society of Vertebrate Paleontology
2007-2008 *Operations Committee*, Member-At-Large, National Center for Evolutionary Synthesis (NESCent.org)
2003--2008 *Predoctoral Fellowship Committee*, Society of Vertebrate Paleontology
2004--2006 *Chair*, Predoctoral Fellowship Committee, Society of Vertebrate Paleontology
2004 Sigma Xi Grants in Aid of Research, Committee
2004-2006 *Governing Council,* Member-At-Large, International Society of Phylogenetic Nomenclature (ISPN)
2000 *Co-convener*, "Missing Data- Practical Problems and Theoretical Issues" Symposium of the Society of Vertebrate Paleontology
1999 *Organizing committee member and moderator*, "New Perspectives on the Origin and Early Evolution of Birds: an International Symposium in Honor of John H. Ostrom," Yale Peabody Museum and Yale University Department of Geology and Geophysics

Reviews for: Nature, Science, Proceedings of the National Academy of Science, USA, Proceedings of the Royal Society, London, Trends in Ecology and Evolutionary Biology, Systematic Biology, Current

Biology, Evolution, Evolution and Development, Geophysical Research Letters, Journal of Biomedical Informatics, Oxford University Press, University of California Press and Cambridge University Press, Cladistics, Journal of Vertebrate Paleontology, Journal of Paleontology, Paleontological Research, Naturwissenschaften, American Museum of Natural History Novitates, Canadian Journal of Earth Sciences, Paläontologische Zeitschrift, Journal of Systematics and Evolutionary Research.

NSF Panelist: (BIO) NSF Referee: Systematics (BIO), Paleobiology (EAR), and Polar Programs (OPP). External Referee: Smithsonian Institution Personnel Review, French Polar Programs Grant Review; CONICET, Argentine Research Council. NERC, UK: Fellows Program; EU Marie Curie Program; National Geographic Society, Exploration Fund.

Exhibits, Public Programs and Other Education and Outreach: *(selected).*

2026 Science-driven dinosaur soundscape, Thinc design consulting for multiple museums original project for new Nature and Culture Museum of Wisconsin
2025 BBC/NOVA show on evolution -featured scientist.
2025 U.S. State Dept. International Diplomacy Program; 10 lectures and programs for 1,500 people in one week, New Zealand
2023-2024 *Phi Beta Kappa* Visiting Scholar https://www.pbk.org/visitingscholars
2023 UT Environmental Science Institute Hot Science, Cool Talks Lecture for the Austin Community
2021 Santa Clara Audubon Society, Public Lecture.
2021 Eugene Natural History Society, Public Lecture.
2021 Travis Audubon Society, Public Lecture
2020 Podcasts: *Getting Curious* with Jonathan Van Ness
2020 Podcasts: *20,000 Hertz*.
2020 Moderator of Public Lecture, 50 Years of Women at Yale, Yale Peabody Museum
2019 Mississippi Strawberry Plains Audubon Center, Hummingbird Festival Anniversary Celebration, Public programs.
2019 BBC, CBC, NPR national radio and digital content science programs; e.g. The Brain Scoop; It's OK to be Smart Washington Post podcast for kids.
2018-2019 PBS/NOVA production on the evolution of birds – "When Whales Walked" (featured scientist)
2018 Keynote, National Conference for the Advancement of Science Teaching (CAST)
2017 BBC Documentary Program on T Rex. (consultant and featured scientist)"T.rex rediscovered.
2017 High Desert Museum, Public Program, Bend, Oregon
2017 Science on Screen event at the Bullock Museum with Austin Film Society Sponsored by the Alfred P. Sloan Society.
2016 HHMI Sponsored workshop on teaching evolution (Secondary and University Level) at the combined Society for the Study of Evolution/Society of Systematic Biologists meeting (SSE/SSB)
2016 NSF sponsored Undergraduate Futures Keynote speaker SSB/SSE Diversity Awards.
2016 Evolution Film Fest. Great Transitions Featured Film Q and A at the combined Society for the Study of Evolution/Society of Systematic Biologists meeting (SSE/SSB)
2016 ALLELE (Alabama's Lectures on Life's Evolution) series at the University of Alabama "Now in its eighth year, the ALLELE (Alabama Lectures on Life's Evolution) seminar series is a specialized group of talks on all things evolution …The series brings to campus influential scientists, scholars, and authors from universities, museums, and research labs throughout North America." http://www.as.ua.edu/home/exploring-evolution/

2016	100th UT Environmental Science Institute Hot Science, Cool Talks Anniversary Lecture for 1000+ people from the Austin community
2016	Local public lecture for ~300 people on dinosaur color as part of "Nerd Night ATX"
2015	Astronomy on Tap, ATX, public lecture on the K/Pg boundary (Austin)
2015	Evolution Outreach Program for the Nature Science Gallery (Austin)
2015	AMSCUE (American Association for Microbiology) Q&A Program associated with HHMI Great Transitions film on the origin of birds.
2015	National Science Teachers Association Meeting, presentation and workshop for teachers associated with screening of the new HHMI movie.
2014	Howard Hughes Medical Institute Biointeractive: Great Transitions video program. Featured Scientist/Host and Consultant. Educational Film on the Evolution of Birds distributed to 5,000+ classrooms.
2014	Sky HD/3D: Conquest of the skies; 3D IMAX David Attenborough Program, consulting on dinosaur reconstructions.
2014	Museum at Prairiefire, a new natural history museum in Overland Park, KS partnered with the AMNH, featured scientist in permanent exhibit, exhibit consulting.
2013	Dallas Paleontological Society, public lecture
2013	Witte Museum, San Antonio, public lecture
2012--	Cornell Lab of Ornithology consulting on "Great Mural of Avian Evolution"
2012	Travis County Audubon Society, Austin: public lecture
2011--	UT Undergraduate Geoscience Leadership Organization of Women, faculty sponsor
2011	UT Environmental Science Institute: Hot Science, Cool Talks lecture for ~1000 attendees– curricular materials distributed to Texas math and science teachers.
2011	Paleontological Society, Austin: public lecture
2010	Texas Memorial Museum Darwin Day: public lecture.
2010	Witte Museum in San Antonio, advisor on dinosaur exhibition.
2010	IMAX 3D dinosaur movie, consulting.
2009-2010	National Geographic Television program, "Dinomorphosis" Featured Scientist
2008	Field Museum of Natural History, outreach about NSF work on Eocene birds for public "In the Field" magazine and for "Evolving Earth" a new permanent exhibit.
2008	WISE (Women in Science and Engineering) North Carolina State University, invited lecture
2007-2009	Science Advisor, Durham Museum of Life and Science, permanent dinosaur exhibit.
2002-2008	Scientific Advisory Committee, for the internationally touring dinosaur, "Dinosaurs, ancient fossils new discoveries." (AMNH and partners). Public program development and lectures associated with the exhibit at the North Carolina Museum of Natural Sciences.
2002-2007	IMAX Movie "Dinosaurs Alive" Science Advisory Committee and featured scientist
2007	NOVA program "Four Wing Dinosaur". Science Advisor and featured scientist,
2007	Tennessee Aquarium and Discovery Center, Program for "Girls Inc."
2006	Science Advisor and featured scientist, BBC/Discovery program
2006	Catawba Science Center, Hickory NC, "Dinosaur Days", Featured Lecture
2006	Piedmont Bird Club, Public Lecture
2006	WISE (Women in Science and Engineering) Faculty Panelist, College of Physical and Mathematical Sciences, North Carolina State University
2005	Career Explorations in Science & Engineering Program, NCSU Science House, Seminar for rising 12th grade North Carolina students to spend two weeks discovering scientific research and engineering.
2005	Women of the Society of Vertebrate Paleontology (WSVP), Panelist, 2005.
2005	Schliele Museum (Smithsonian affiliate, Gastonia, NC) Fossil Fair, Invited/featured speaker

2005 Expanding Your Horizons program for 7th grade girls, workshop leader.
2005 Durham Technical Community College The Science Faculty2004-2005 Seminar Series, April 2005 "Birds Among Dinosaurs".
2004 UNC-TV(PBS) Documentary: "North Carolina's Natural Treasures"
2003 North Carolina Fossil Fair, Invited/featured speaker
2003 Hudson River Audubon Society, lecture: The dinosaur-bird connection
1999 "Chinese Feathered Dinosaurs" exhibit, Yale Peabody Museum of Natural History
consulted on exhibit copy and design
1997-2002 Yale Peabody Museum of Natural History, Public Education Fellow
1992-1995 One of twelve founding mentor/teachers in a pioneer pre-college enrichment program for high-school students

Research Mentorship Boldface: current

Postdoctoral Researchers:

Jongyun Jung (March 2025- March 2026) PhD. Chonnam National University, Korea
Lucas Legendre (Sept. 2018-2025) PhD. Inst. of Earth Sciences, Pierre and Marie Curie University, Paris; Research Associate, UT Austin.
Carlos Rodriguez (Oct.2019-2022) PhD Emory University.
Now: Assistant Professor Southern Illinois University.
Nicholas Crouch (Sept. 2017-2019) PhD University of Illinois at Chicago.
Now: Research Scientist, The University of Chicago.
Chad Eliason (Sept 2014- Dec 2016) PhD University of Akron
Now: Senior Research Scientist, Field Museum of Natural History.
Zhiheng Li (Sept 2015- Sept 2016) PhD, University of Texas.
Now. Associate Professor, Chinese Academy of Sciences, Key Laboratory Institute for Vertebrate Paleontology and Paleoanthropology, Beijing
Xia Wang (July 2013- March 2016) PhD, University of Dublin, IR
Now: Research Associate Professor, Jinan University
N. Adam Smith (May 2011-Aug. 2011) PhD, University of Texas.
Now: Curator, Campbell Geology Museum, Clemson University.
Sterling Nesbitt (Sept. 2009- Sept. 2010) PhD Columbia University
Now: Professor, Virginia Tech University
Daniel Ksepka (Sept. 2007-Dec. 2008) PhD Columbia University
Now: Head Curator of Science, Bruce Museum, Greenwich CT.

Graduate Students:

Primary Advisor: 12 PhD and 8 MS
Jackson Battle (MS 2026-) Coadvised with Ben Kligman (Systematic Paleontology)
Saketh Sundararajan (PhD 2026-) Coadvised with Becca Young (EEB) (Evolutionary Development) (EEB, Recruiting Fellowship)
Gavin Blanchard (PhD 2025-) Coadvised with Thorsten Becker (Tectonics and Life)
Savon Brooks (MS 2026) Coadvised with Dan Breecker (redox conditions in the Antarctic Cretaceous and Paleogene).
Jessica Valdes (MS 2025) (EEB, Recruiting Fellowship, GeoFORCE alumna).
Now: private sector: Element USA, Austin Texas.
Hans Bilger (PhD 2023) (EEB, co-advised with Mike Ryan) NSF Graduate Research Fellowship, DAAD fellowship. (ontogeny of animal behavior and anatomy of vocal organs)
Now: Independent musician and scholar in Berlin.

Grace Musser (PhD 2022) NSF Graduate Research Fellowship, Smithsonian Research Fellowship
Now: NSF Postdoctoral Fellowship, National Museum of Natural History
Sarah Davis (PhD 2022) NSF Graduate Research Fellowship, AOU research grant.
Now: Collection Manager, Carnegie Museum of Natural History
Janna Muhammed (MS 2022) JSG Recruiting Fellowship. NSF GRFP finalist.
Jasmine Nelson (MS 2021) NSF Graduate Research Fellowship, West Texas Recruiting Fellowship, UT Austin.
Now: PhD. Student Colorado State University, Conservation Bioacoustics.
Chris Torres (PhD 2020) (EEB, co-advised). Competitive EEB Research Startup, DDIG, and Continuing Fellowship Grants, NSF Postdoctoral Researcher, Ohio University.
Now: Assistant Professor, University of the Pacific.
Lauren English (PhD 2018) JSG Fellowship recipient.
Now: Museum Scientist, University of California, Riverside
James Proffitt (PhD 2018) NSF Graduate Research Fellowship, Paleontological Society Grant, UT, Whitney Endowed Presidential Scholarship. Previous: Instructor and Postdoctoral Researcher, University of Missouri.
Now: Associate Professor of Anatomy, College of Medicine, The University of Arizona.
Zhiheng Li (PhD, 2015) University Continuing Fellowship in 2014. Smithsonian Graduate Research Fellowship in 2012.
Now. Associate Professor, Chinese Academy of Sciences, Institute for Vertebrate Paleontology and Paleoanthropology.
Katherine Browne (MS 2014) Working in Austin.
Felicia Kulp (MS 2014) JSG Fellowship recipient. JSG student poster competition winner (MS level)
Now: Employed as a biochemist.
A.J. DeBee (MS 2012) NCSU competitive recruitment fellowship.
Now: Washington State, Department of Labor and Industries.
Clint Boyd (PhD UT 2012)
Now: State Paleontologist, North Dakota
N. Adam Smith (PhD UT 2011)
Now: Curator, Campbell Geology Museum, Clemson University,
Adjunct Faculty School of Forestry and the Environment.
Previous: Field Museum of Natural History, Postdoctoral Fellow; NESCent postdoctoral fellow.
Drew Eddy (MS NCSU, 2008)
Now: Graduate Geophysicist at BHP Billiton; UT Exploration Geophysics, PhD 2014.

Committee Member:
Nyniane Steinkampf—Pellecuer Paris Museum of Natural History (PhD 2025-)
Jayden Scott Southern Illinois University (PhD 2025-)
Hector Garza JSG (PhD 2025 Adv. Liz Catlos).
Will Reyes JSG (PhD. 2025 Adv. Chris Bell)
Sinjini Singh, JSG (PhD. 2024 Adv. Rowan Martindale)
Samantha Smith EEB (PhD 2024 Adv: Steve Phelps)
Claudia Banks JSG (MS 2022 Adv. Brian Horton)
Roy Ebel Humboldt University (MS 2019)
Will Gelnaw UT Paleontology (PhD 2018)
Adam Marsh UT Paleontology (MS 2013, PhD 2018)
Jennifer Peterya, University of Akron (PhD 2018)
Kelsey Stinson UT Paleontology (MS 2015)
Rachel Simon UT Paleontology (MS 2013)

Bill Parker UT Paleontology (PhD 2014)
Ashley Latimer UT Paleontology (MS 2014)
Robert Burroughs UT Paleontology (MS 2013)
Natasha Vitek UT Paleontology (MS 2013)
Michelle Stocker UT Paleontology (PhD, 2013)
Nathan Smith, University of Chicago (PhD, 2011)
Jeremy Green, MEAS, NCSU (PhD, 2009)
Matt Bertone, Entomology, NCSU (PhD, 2008)
Daniel Ksepka, Columbia University (PhD, 2007)
Nina Triche, University of Texas, Austin (PhD, 2007)

Examining Committee Member: (PhD)
Edward Clennett UT JSG 2021
Kwun Yip Fung, UT JSG 2019
Zhiguang Xue, UT JSG 2015
Brian Keith Lohman, UT Biology 2013
Bud Davis UT JSG Geology 2013
Nicolas Huerta, UT JSG 2011
April Wright UT Biology 2010
Patrick Stinson UT Biology 2010
Ying Sun, UT JSG 2009

Undergraduate Student Projects Supervised: (see also cohort based mentorship- Summer REU experiences funded by HHMI).**Bold** = current.
Janet Canamar Jackson Scholars Thesis**;** Advisor for Paleontological Society/NPS grant project 2 years.
Grace Bartunek, Independent Research Project
Bradley Ibarra, JSG Honors Thesis
Now: PhD Student, University of Michigan
Carmen Urban: 2019-2022 Plan II Honors Project.
Now: MS student, Idaho State University
Michael Chiappone: (2019-2022) JSG Jackson Scholar Thesis, Geosciences.
Now: PhD. Student, University of Minnesota
Kristina Montez: (RTX summer 2021) REU student from Rice University
Now: Medical School
Sarah Hood (2016-2018) Plan II honors, polymathic scholar thesis
Now: PhD program at San Diego State University. NSF GRFP
Hector Garza: (2014-2016) UT Multiple projects, *Geoforce* student.
Presentation at GSA 2016, coauthor two abstracts and a paper
Jessica Valdes, McNair Scholars Program Fall (2014- 2016). Geoforce & McNair Scholar
Thesis research on melanin based coloration in extant birds. presenations SACNAS and National McNair Scholars meeting., NSF REU Ethiopia,
Leslie Jordan: GEOforce student, (2015-2016) UT SEM imaging of bird feathers
Adele Anderson: (2016) Brown University
Undergraduate Visiting Summer Scholar, project: hummingbird vocalization
Ho Kwan Tang, (2015) Mount Holyoke College,
Undergraduate Visiting Summer Scholar, Feather anatomy
Jenny Le (2016) Avian vocalization
Emily Roberts, (2014-2015) UT Elephant bird and ostrich fossil records. Student in Anthropology
Victor Gonzalez, (2014) Turtle vocalization

Felicia Moran 92014), limb lengths in waterbirds
Now: Geologist, Luxe Energy, Austin
Mitchell Reigler
Now: Postdoctoral Research, University of Florida
Leah Hudson 2014-2016. UT
Research project. "Exceptional Preservation through time". Paper and 2 abstracts.
Now: MD Anderson Cancer Center, research data coordinator, Stem Cell Transplant Department
Taylor Watts 2013-2016 UT
Research project. "Exceptional Preservation through time"
coauthor manuscript and 2 abstracts.
Now: Geologist- Luxe Energy, Austin
Rachel Egan 2013-2014, UT
Research project. Paleocene Penguins from New Zealand.
Jennifer Millard Spring-Summer 2014. Waterbird hind limb proportions.
Abigail Black Spring 2014. Research project for course credit on basal bird evolution.
Now: Geologist, Conoco Phillips
Nicole Kurka UT Spring 2012- 2014. Honors thesis supervision. Finished in 2014. Pressentation at SICB meeting. Austin Geological Society Award. Endowed presidential scholarship
Now: Geologist, Schlumberger Oil and gas industry
Josh Swisher UT Fall 2012, Spring and Summer 2013
Now: Geologist, Oil and Gas industry
Julie Fryman UT Fall 2011- 2013.
Now: Pasadena Humane Society, previous: Peace Corp
Grace Self UT Spring-Summer 2012 Now: research with C. Bell, U.T Austin
Krystal Heibel UT Spring-Summer 2012
Now: Geoscience PhD student, Oklahoma State University
Sara Cabral UT Spring-Summer 2012
Geoscience major as part of the McNair Scholars program (was Radio Television Film major before my class).
Regina Manion UT Spring 2012
Now: Teacher, Uplift Education
Geoffrey Britt UT Spring 2012
Katie Browne: UT Fall 2009, Spring- Summer 2010, Fall 2010, Spring 2011
Became: Geoscience MS Student UT Austin,
Mary Martha Kidd: UT Spring-Summer 2010, Fall 2010, Spring 2011
Now: UT Law student
Rania Eldam: UT Spring- Summer 2010, Fall 2010. Honors student with J. Barnes and now PhD student, Colorado School of Mines
Alma Colmenero UT, Spring 2010
Chris Torres, Spring- Summer 2007, 2008, NCSU Undergraduate Research Fellow;
2 months work at UT in Fall 2009 sponsored by am NSF REU supplement to Clarke.
MS Student, UNCW, Now: PhD student UT Biology.
Daniel Lavwer, Spring- Summer 2007, 2008, NCSU Undergraduate Research Fellow;
2 months work in Fall 2009 sponsored by an NSF REU supplement to Clarke.
Now: Assistant Professor of Anatomy, Touro College of Osteopathic Medicine; PhD 2016 from Montana State University
Adrian LeCesne Summer 2007, Fall 2008
Yale University student funded on NSF Supplement for research in China
Now: Natural Resources Law, Brownstein, Hyatt, Farber Schreck

Zack Boles Spring 2007. NCSU
Now: PhD 216 Student, Paleontology Drexel University
Brandon Smith, Spring-Summer 2007, NCSU Undergraduate Research Fellow
Phoebe Wang, Fall 2007 NCSU Honors contract project in art and paleontology
Now: Graphic designer, Toom Boom Animation
Lindsay Wittington, Spring 2006, NCSU
Kelly Best, Spring 2005- Fall 2006, NCSU Undergraduate Research Fellow
Kaitlin Strickland 2005- Fall 2006.NCSU
Now: VP, Communications iMedicare

Course Development and Teaching:

*CtQ Research Design, Quantitative Analysis and Data Visualization: "*From Curiosity to Question". A 13-27 person project- based course with tiered mentorship, with graduate and undergraduate students. Funded by the Provost's office and now HHMI. 2016-2023, 2025-present.

Life through Time: An introduction to the linked evolution of life and Earth for majors and non-maors. (~80 students). Fall 2011-2014, 2016- 2019, 2021.New in 2021: Restructured following the CtQ model. Project/discovery driven course. Students define the focal questions of the course. Interdisciplinary collaboration emphasized. Training in accessing the primary literature.

Systematic Fundamentals, Paleontological Questions. A graduate seminar on morphology-based systematics, philosophical issues of the character and methods for the study of morphological evolution using discrete characters (~10 students). Spring 2010, 2012, 2013.

Avian Anatomy, Hands on specimen based course focused on project based learning. (5-10 undergraduate and graduate students). Fall, 2013, 2014.

The Age of Dinosaurs. A large enrollment (150-200 students) non-majors course co-taught with T. Rowe. Fall 2009, 2010, 2025.

Expedition Methods: from Grantsmanship to Logistics. A graduate seminar (8 Students) Fall 2009. A grant writing and logistics course focused on international collaboration.

Other teaching/course development:

Harvard University, Guest lecture in freshman seminar on dinosaurs. 2015.

School of Architecture UT "Living Color: Architecture, Culture, Art, Light, And Science" Undergraduate Signature Course. Guest lectures: 2010, 2012, 2014

UTeach program. Co-taught intensive summer course (paleontology module) for Texas math and science teachers (MA program). 2009, 2010.

Undergraduate research mentorship: In Spring 2015, I supervised 8 undergraduates, and 6 meet with me as a group on a bi-weekly basis for two-hours/course format. This work informed development of a new experiential learning/writing flag course focused on project-based learning. All of the students are writing papers, conducting peer review, and most will continue their projects this summer or fall. These research hours are for a grade. The flags for these courses were approved in January/February 2016. See Curiosity to Question above.

North Carolina State University: 2004-2009
Dinosaurs, large enrollment course used for recruitment of majors. co-taught with M. Schweitzer
Morphological Evolution and Systematics (upper division undergraduates and graduate students)
Anatomy and Physiology of Dinosaurs (including birds) (Upper division undergraduates and graduate students) co-taught with M. Schweitzer
Deep Time, Diversity, and Systematics (upper division undergraduates and graduate students).
Vertebrate Paleontology: Methods and Theory (undergraduates and graduate students) co-taught with M. Schweitzer.

University Service:

2021-2023 CREED Representative
2018-2021 Provost Graduate Mentorship Taskforce
2017-2021 Independent Inquiry (FLAGs) Committee,
2017-2018 Provost's Taskforce on experiential learning
2017-2023 Gender Equity Committee
2016-2017 Provost's Teaching Fellow, Steering Committee, First Year Representative.
2014-2015 Task Force to develop a UT Faculty Innovation Center, Committee co-Chair.

Jackson School of Geoscience Service:

Chair, Executive Committee, JSG Research Collections, 2026-present
Associate Dean, 2021-2024
Faculty advisor: Geoscience Leadership Organization of Women. 2009-2021
Diversity and Inclusion Committee. 2017-2021
Plates 4D Integrative Postdoc. Search Committee 2020.
Endowment Committee 2016- 2019
Search Committee; Associate Dean of Research, 2016-2017
Carbon Climate, Geobiology Group, Executive Committee.

Department of Geological Sciences:

Chair Search Committee, Curators in Charge of Research Labs (2 positions) 2025-2026
Member Endowed Positions Committee, 2025-2026
Associate Chair of Surface/Subsurface Processes and Life 2020-2021
Chair, Endowed Positions Policy Committee 2019-2020.
Search Committee, Stratigraphy and Sedimentology. 2019-2020
Post-Tenure Review Committee. 2019.
Before 2019
Undergraduate Curriculum Committee,
Strategic Planning Committee;
Faculty Evaluation Committee;
Space Committee
Vertebrate Paleontology Lab, Executive Committee.
Lundelius and Lowe Prize Committees

Other activities: Transfer student orientation speaker2013, 2014; 2014 JSG Advisory Council Spring Meeting, Lecture 2014 Environmental Science Institute, UT Fundraising Dinner, Lecture 2014; JSG Alumni Friends Lecture 2014 Provost's Campus Conversations Faculty Symposium on undergraduate research and teaching, 2014 Assistance to the Admissions and Support Committee 2015. Provost's Faculty Campus Conversations, facilitator 2015. 2015, 2016, 2019 Undergraduate Geology Society Speaker.

2012-2013- JSG Committee Service: Paleontology Discipline Leader; Search Committee Chair, Invertebrate Paleontology Hire.
2009-2012 Committee Service, Ad hoc JSG Associate Dean of Academic Affairs Search Committee; Information Technology Committee; Seminar Committee; Lundelius and Lowe Prize Committees; Climate; Ad hoc PhD Candidacy Committee.

2004-2008 Departmental Committees, NCSU: Search Committee, Climate Dynamics, 2007-2008; Committee on Service Assignments, 2006-2008; IT Committee, 2004-2008; Geology Curriculum Committee, 2004-2006; Ad-hoc Department Head Evaluation Survey Committee, 2006; Graduate Program Review Committee, 2005-2006; Search Committee, Meteorology, 2004-2005; Cavaroc Scholarship Committee, 2004.

Museum Service:

2009- Texas Memorial Museum: collection building: ~ extant avian specimens through salvage and international exchange (New Zealand, Brazil), casts of Peruvian and original accession of Antarctic fossil specimens, Green River Formation fish and bat specimens. Student assistantship providing graduate training in collection management and extant specimen preparation.

2004-2008 North Carolina Museum of Natural Sciences, Service: Permanent collection building: instrumental in museum accessioning first major dinosaur specimens since 2000; Collaborative work/student training to improve extant avian skeletal collection.

Summary of Collaborative International Field Work:

2023-present	Korea, Cretaceous
2023	Mongolia, Neolithic led by Arlene Rosen and others.
2018, 2019	China (PRC), Yunnan, Gansu
2017- 2020	Chile, Magallanes Province
2011, 2016	Antarctica, James Ross Archipelago, Cretaceous-NSF funded.
2009, 2011	New Zealand, Chatham Islands, Cretaceous-Paleogene; NSF funded.
2006—2015-	Peru, Paleogene, Pisco Basin, Ica Province. National Geographic Society and NSF funded.
2001-2009,	Mongolia, Cretaceous & Paleogene AMNH/MAS (8 seasons);
2000-2010	Wyoming, Green River Formation, Paleogene;: NSF funded PRC, Cretaceous, National Geographic Society funded; Kansas, USA; Niobrara Formation Cretaceous-O.C. Marsh localities.
1994-1999	Argentina, Cretaceous, Auca Mahuevo sauropod nesting locality, Boca del Sapo & Las Quijadas localities and Buenos Aires Province (Planetary Geology); Spain, Cretaceous, Las Hoyas locality.

Other recognition:

More than 20 high impact publications covered and commentary routinely provided for international news periodicals and agencies including New York Times, LA Times, CNN, Washington Post, Reuters, AFP, AP, MSNBC, UK Times, Guardian, Telegraph. Research coverage in National Geographic Magazine. Radio interviews include those for NPR Science Friday, BBC, CBC, National Geographic Weekend, EarthSky and VOM. Featured scientist: IMAX, Discovery, BBC, NOVA, National Geographic Television programs.