

Prof. Daniel J. Field

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EDUCATION

PhD: Vertebrate Paleontology, Yale (Awarded May 2017)
MPhil: Vertebrate Paleontology, Yale
BSc (Honours with Distinction): Zoology, UBC

AFFILIATIONS

2023-: Professor of Vertebrate Palaeontology, Department of Earth Sciences, University of Cambridge, UK
2021-: Research Associate, Department of Earth Sciences, Natural History Museum, London, UK
2021-: Strickland Curator of Ornithology, University Museum of Zoology, Cambridge, UK
2019-: Fellow in Natural Sciences, Christ's College, University of Cambridge, UK
2018-: Research Associate, Department of Earth Sciences, Denver Museum of Nature and Science, USA
2018-23: Assistant Professor, Department of Earth Sciences, University of Cambridge, UK

RESEARCH INTERESTS

I take a palaeobiological approach to studying the origins of modern bird diversity, as well as the origins of avian morphological, behavioural, and physiological specialisations. My research draws primarily on anatomical, fossil, and molecular data from across the avian crown group, and palaeontological evidence from its proximal stem.

PUBLICATIONS

I: PEER-REVIEWED PAPERS & INVITED COMMENTARIES (LAB MEMBERS IN BOLD)

- 65) **Chen, A.**, Costa, T.V.V., **Field, D.J.** On the origin of nightjars: perspectives from the fossil record. *Accepted. Invited book chapter for 'Nightjars: from mystery to models in Ecology and Evolution'*. [AC POSTDOC]
- 64) Peacock, J., Spellman, G.M., **Field, D.J.**, Mason, M.J., Mayr, G. 2023. Comparative morphology of the avian bony columella. *Anatomical Record*.
- 63) **Widrig, K.**, Bhullar, B.A-S., **Field, D.J.** 2023. 3D atlas of tinamou (Neornithes: Tinamidae) pectoral morphology: implications for reconstructing the ancestral neornithine flight apparatus. *Journal of Anatomy*. [WIDRIG PHD STUDENT]
- 62) **Kuo, P.-C.**, Benson, R.B.J., **Field, D.J.** 2023. The importance of fossils in macroevolutionary analyses of 3D geometric morphometric data: a case study of galloanseran quadrates. *Journal of Morphology* **284**(6): e21594. <https://doi.org/10.1002/jmor.21594>. [PCK PHD STUDENT]
- 61) **Burton, M.G.P.**, Benson R.B.J., **Field, D.J.** 2023. Direct quantification of skeletal pneumaticity reveals ecological drivers of a key avian trait. *Proceedings of the Royal Society B*. **290**: 20230160. <https://doi.org/10.1098/rspb.2023.0160> [MGPB MASTER'S STUDENT]
- 60) Lowi-Merri, T.M., **Demuth, O.E.**, **Benito, J.**, **Field, D.J.**, Benson, R.B.J., Claramunt, S., Evans, D.C. 2023. Reconstructing locomotor ecology of extinct avialans: a case study of *Ichthyornis* comparing sternum morphology and skeletal proportions. *Proceedings of the Royal Society B* **290**: 20222020. <http://doi.org/10.1098/rspb.2022.2020>. [OED PHD STUDENT, JB POSTDOC]
- 59) **Gayford, J.H.**, Whitehead, D.A., **Field, D.J.** 2023. The selective drivers of allometry in sharks (*Chondrichthyes: Elasmobranchii*). *Zoological Journal of the Linnean Society* zlac110. <https://doi.org/10.1093/zoolinnean/zlac110>. [JHG UNDERGRAD STUDENT]
- 58) **Steell, E.M.**, Nguyen, J., Benson, R.B.J., **Field, D.J.** 2023. Evolution of the passerine carpometacarpus helps illuminate the early fossil record of crown Passeriformes. *Journal of Anatomy* **242**: 495-509. doi: 10.1111/joa.13761. [EMS PHD STUDENT]
- 57) Ksepka, D.T., **Field, D.J.**, Heath, T.A., Pett, W., Thomas, D.B., Giovanardi, S., Tennyson, A.J.D. 2023. Largest-known fossil penguin clarifies the evolution of sphenisciform body size and flipper anatomy. *Journal of Paleontology*. 1-20. doi:10.1017/jpa.2022.88.
- 56) **Benito, J.**, **Kuo, P.-C.**, **Widrig, K.E.**, Jagt, J.W.M., **Field, D.J.** 2022. Latest Cretaceous ornithurine supports a neognathous crown bird ancestor. *Nature* **612**: 100-105. doi: <https://doi.org/10.1038/s41586-022-05445-y>. [JB, PCK, KEW PHD STUDENTS]

- 55) **Benito, J., Chen, A., Bhullar, B.A-S., Field, D.J.** 2022. [Forty new specimens of *Ichthyornis* provide unprecedented insight into the postcranial morphology of crownward stem group birds.](#) *PeerJ* 10:e13919. <https://doi.org/10.7717/peerj.13919>. **[JB, AC PHD STUDENTS]**
- 54) Chiappe, L.M., **Navalón, G., Nava, W., Martinelli, A.G., Field, D.J.** 2022. [Three-dimensional enantiornithine braincase clarifies the origin of the avian central nervous system and inner ear.](#) *Proceedings of the Royal Society B* **289**: 20221398. **[GN POSTDOC]**
- 53) **Demuth, O.E., Benito, J., Tschopp, E., Lautenschlager, S., Mallison, H., Heeb, N., Field, D.J.** 2022. [Topology-based three-dimensional reconstruction of delicate fossil remains and the quantification of taphonomic deformation.](#) *Frontiers in Earth Science* **10**: 10.3389/fevo.2022.828006. **[OED, JB PHD STUDENTS]**
- 52) **Widrig, K.E. & Field, D.J.** 2022. [The evolution and fossil record of palaeognathous birds \(Neornithes: Palaeognathae\).](#) *Diversity* **14**(2): 105 doi:10.3390/d14020105. **[KEW PHD STUDENT]**
- 51) **Ducatez, S. & Field, D.J.** 2021. [Disentangling the avian altricial-precocial spectrum: Quantitative assessment of developmental mode, phylogenetic signal, and dimensionality.](#) *Evolution* **75**(11): 2717-2735. <https://doi.org/10.1111/evo.14365>. **[COVER; SD POSTDOC]**
- 50) Hughes, J.J., **Berv, J.S.,** Chester, S.J.B., Sargis, E.J., **Field, D.J.** 2021. [Ecological selectivity and the evolution of mammalian substrate preference across the K–Pg boundary.](#) *Ecology and Evolution* **11**, 14540-14554. <https://doi.org/10.1002/ece3.8114/>. **[JSB VISITING PHD STUDENT]**
- 49) **Klein, C.G.,** Pisani, D., **Field, D.J.,** Lakin, R., Wills, M.A., Longrich, N.R. 2021. [Evolution and dispersal of snakes across the Cretaceous–Paleogene mass extinction.](#) *Nature Communications* **12** :5335. <http://doi.org/10.1038/s41467-021-25136-y>. **[CGK co-ADVISED PHD STUDENT]**
- 48) **Watanabe, J., Field, D.J.,** Matsuoka, H. 2021. [Wing musculature reconstruction in extinct flightless auks \(*Pinguinus* and *Mancalla*\) reveals incomplete convergence with penguins \(*Spheniscidae*\) due to differing ancestral states.](#) *Integrative Organismal Biology* **3**(1): obaa040. <https://doi.org/10.1093/iob/obaa040>. **[JW POSTDOC]**
- 47) Louchart, A., Bhullar, B.A-S., Riamon, S., **Field, D.J.** 2021. [The true identity of putative tooth alveoli in a Cenozoic crown bird, the gastornithid *Omorhamphus*.](#) *Frontiers in Earth Science* **9**:661699. doi: 10.3389/feart.2021.661699.
- 46) O'Connor, J.K., **Field, D.J.,** Sullivan, C. 2021. [Early avian evolution.](#) *Frontiers in Earth Science* **9**:730214. doi: 10.3389/feart.2021.730214.
- 45) **Brocklehurst, N. & Field, D.J.** 2021. [Macroevolutionary dynamics of dentition in Mesozoic birds reveal no long-term selection towards tooth loss.](#) *iScience* **24**: 102243. <https://doi.org/10.1016/j.isci.2021.102243>. **[NB POSTDOC]**
- 44) **Field, D.J.** [The changing face of birds from the Age of Dinosaurs](#) (Invited Commentary). 2020. *Nature* **588**: 221-222. <https://doi.org/10.1038/d41586-020-03260-x>
- 43) **Field, D.J., Benito, J., Chen, A.,** Jagt, J.M.W., Ksepka, D.T. 2020. [Late Cretaceous neornithine from Europe illuminates the origins of crown birds.](#) *Nature* **579** 397-401. <https://doi.org/10.1038/s41586-020-2096-0>. Includes associated [News and Views](#) article. **[JB, AC PHD STUDENTS]**
- 42) **Chen, A. & Field, D.J.** 2020. [Phylogenetic definitions for Caprimulgimorphae \(Aves\) and major constituent clades under the International Code of Phylogenetic Nomenclature.](#) *Vertebrate Zoology* **74**(4): 571-585. <http://www.doi.org/10.26049/VZ70-4-2020-03>. **[AC PHD STUDENT]**
- 41) **Field, D.J., Berv, J.S.,** Hsiang, A.Y., Lanfear, R., Landis, M.J., Dornburg, A. 2020. [Timing the extant avian radiation: The rise of modern birds, and the importance of modeling molecular rate variation.](#) In *Pennaraptoran theropod dinosaurs: Past progress and new frontiers* (Pittman, M. & Xing, X. Eds.). *Bulletin of the American Museum of Natural History* **440**: 159-181. **[JSB VISITING PHD STUDENT]**
- 40) Ding, A., Pittman, M., Upchurch, P., O'Connor, J.K., **Field, D.J.,** Xing, X. 2020. [The biogeography of coelurosaurian dinosaurs and its impact on their evolutionary history.](#) In *Pennaraptoran theropod dinosaurs: Past progress and new frontiers* (Pittman, M. & Xing, X. Eds.). *Bulletin of the American Museum of Natural History* **440**: 117-157.
- 39) Pittman, M., O'Connor, J.K., Tse, E., Makovicky, P., **Field, D.J.,** Ma, W., Turner, A.H., Xing, X. 2020. [The fossil record of Mesozoic and Paleocene pennaraptorans.](#) In *Pennaraptoran theropod dinosaurs: Past progress and new frontiers* (Pittman, M. & Xing, X. Eds.). *Bulletin of the American Museum of Natural History* **440**: 37-95.

- 38) Pittman, M., O'Connor, J.K., **Field, D.J.**, Ma, W., Xing, X. [Pennaraptoran systematics](#). 2020. In Pennaraptoran theropod dinosaurs: Past progress and new frontiers (Pittman, M. & Xing, X. Eds.). *Bulletin of the American Museum of Natural History* 440: 7-36.
- 37) Pittman, M., Heers, A.M., Serrano, F.J., **Field, D.J.**, Habib, M.B., Dececchi, T.A., Kaye, T.G., Larsson, H.C.E. 2020. [Methods of studying early theropod flight](#). In Pennaraptoran theropod dinosaurs: Past progress and new frontiers (Pittman, M. & Xing, X. Eds.). *Bulletin of the American Museum of Natural History*: 440: 277-294.
- 36) **Field, D.J.** 2020. [Preliminary paleoecological insights from the Pliocene avifauna of Kanapoi, Kenya: implications for the ecology of *Australopithecus anamensis*](#). *Journal of Human Evolution* 140 102384. doi.org/10.1016/j.jhevol.2017.08.007.
- 35) Ksepka, D.T., Balanoff, A.M., Smith, N.A., Bever, G.S., Bhullar, B.A-S., Bourdon, E., Braun, E.L., Burleigh, J.G., Clarke, J.A., Colbert, M.W., Corfield, J.R., Degrange, F.J., De Pietri, V.L., Early, C.M., **Field, D.J.**, Gignac, P.M., Gold, M.E.L., Kimball, R.T., Kawaba, S., Lefebvre, L., Marugán-Lobón, J., Mongle, C.S., Morhardt, A., Norell, M.A., Ridgely, R.C., Rothman, R.S., Scofield, R.P., Tambussi, C.P., Torres, C.R., van Tuinen, M., Walsh, S.A., Watanabe, A., Witmer, L.M., Wright, A.K., Zanno, L.E., Jarvis, E.D., Smaers, J.B. 2020. [Tempo and pattern of avian brain size evolution](#). *Current Biology* 30: 226-236e3. doi.org/10.1016/j.cub.2020.03.060
- 34) Dawson, R.R., **Field, D.J.**, Hull, P.M., Zelenitsky, D.K., Therrien, F., Affek, H. 2020. Eggshell geochemistry reveals ancestral metabolic thermal regulation in Dinosauria. *Science Advances* 6 eaax9361.
- 33) Saupe, E.E.*, Farnsworth, A., Lunt, D.J., Sagoo, N., Pham, K.V., **Field, D.J.*** 2019. Climatic shifts drove major contractions in avian latitudinal distributions throughout the Cenozoic. *Proceedings of the National Academy of Sciences* 116:26 12895-12900. 10.1073/pnas.1903866116. *Co-lead authors.
- 32) Oliveros, C.H., **Field, D.J.**, Ksepka, D.T., Barker, F.K., Aleixo, A., Anderson, M.J., Alström, P., Benz, B.W., Braun, E.L., Braun, M.J., Bravo, G.A., Brumfield, R.T., Chesser, R.T., Claramunt, S., Cracraft, J., Cuervo, A.M., Derryberry, E.P., Glenn, T.C., Harvey, M.G., Hosner, P.A., Joseph, L., Kimball, R.T., Mack, A.L., Miskelly, C.M., Peterson, A.T., Robbins, M.B., Sheldon, F.H., Silveira, L.F., Smith, B.T., White, N.D., Moyle, R.G., Faircloth, B.C. Earth history and the passerine superradiation. 2019. *Proceedings of the National Academy of Sciences* 116:16 7916-7925. 10.1073/pnas.1813206116. **[COVER]**
- 31) Kimball, R.T., Oliveros, C.H., Wang, N., White, N.D., Barker, F.K., **Field, D.J.**, Ksepka, D.T., Chesser, R.T., Moyle, R.G., Braun, M.J., Brumfield, R.T., Faircloth, B.C., Smith, B.T., Braun, E.L. 2019. A phylogenomic supertree of birds. *Diversity* 11:109 doi:10.3390/d11070109. **[COVER]**
- 30) **Field, D.J.** 2019. Bird Evolution: Convergence fits the bill (Invited Commentary). *Current Biology* 29: R132-R134. doi.org/10.1016/j.cub.2019.01.018.
- 29) **Chen, A.**, White, N.D., Benson, R.B.J., Braun, M.J., **Field, D.J.** 2019. Total-evidence framework reveals complex morphological evolution in nightbirds (Strisores). *Diversity* 11:143 doi:10.3390/d11090143. **[COVER; AC PHD STUDENT]**
- 28) Pimiento, C., Cantalapiedra, J.L., Shimada, K., **Field, D.J.**, Smaers, J.B. 2019. Evolutionary pathways toward gigantism in sharks and rays. *Evolution* 73-3:588-599. doi:10.1111/evo.13680.
- 27) Musser, G., Ksepka, D.T., **Field, D.J.** 2019. New material of Palaeocene-Eocene *Pellornis* (Aves: Gruiformes) clarifies pattern and timing of the extant gruiform radiation. *Diversity* 11:102 doi:10.3390/d11070102.
- 26) **Field, D.J.***, Hanson, M.*, Burnham, D., Wilson-Brantley, L., Super, K., Ehret, D., Ebersole, E., Bhullar, B.A-S. 2018. Complete *Ichthyornis* skull illuminates mosaic assembly of the avian head. *Nature* 557: 96-100. doi:10.1038/s41586-018-0053-y. *co-first authors; includes associated [News and Views](#) article.
- 25) **Field, D.J.**, Bercovici, A., **Berv, J.S.**, Dunn, R., Fastovsky, D., Lyson, T.R., Vajda, V., Gauthier, J.A. 2018. Early evolution of modern birds structured by global forest collapse at the end-Cretaceous mass extinction. *Current Biology* 28(11): 1825-1831.e2. <https://doi.org/10.1016/j.cub.2018.04.062>. **[COVER; JSB VISTING PHD STUDENT]**
- 24) **Berv, J.S.* & Field, D.J.*** 2018. Genomic signature of an avian Lilliput Effect across the K-Pg Extinction. *Systematic Biology* 67(1): 1-13. <https://doi.org/10.1093/sysbio/syx064>. *co-first authors. **[COVER; WINNER OF THE SOCIETY OF SYSTEMATIC BIOLOGISTS PUBLISHER'S AWARD; JSB VISTING PHD STUDENT]**
- 23) **Field, D.J.** & Hsiang, A.Y. 2018. A North American stem turaco, and the complex biogeographic history of modern birds. *BMC Evolutionary Biology* 18:102. <https://doi.org/10.1186/s12862-018-1212-3>.
- 22) **Field, D.J.** 2018. Endless skulls most beautiful (Invited Commentary). *Proceedings of the National Academy of Sciences* 115(3): 448-450. doi:10.1073/pnas.1721208115.

- 21) Faux, C.* & **Field, D.J.*** 2017. Distinct developmental pathways underlie independent losses of flight in ratites. *Biology Letters* 13(7): 20170234. <http://dx.doi.org/10.1098/rsbl.2017.0234>. *co-first authors. **[COVER]**
- 20) **Field, D.J.** 2017. Big-time insights from a tiny bird fossil (Invited Commentary). *Proceedings of the National Academy of Sciences* 114(30): 7750-7752. doi:10.1073/pnas.1710941114.
- 19) Fabbri, M., Koch, N., Pritchard, A., Hanson, M., Hoffman, E., Bever, G., Balanoff, A., Morris, Z., **Field, D.J.**, Camacho, J., Rowe, T., Norell, M., Smith, R., Abzhanov, A., Bhullar, B.A-S. 2017. The skull roof tracks the brain during the evolution and development of reptiles including birds. *Nature Ecology and Evolution* 1(10): 1543-1550. doi: 10.1038/s41559-017-0288-2.
- 18) **Field, D.J.**, Boessenecker, R., Racicot, R., Ásbjörnsdóttir, L., Jónasson, K., Hsiang, A.Y., Behlke, A.D., Vinther, J. 2017. The oldest marine vertebrate fossil from the volcanic island of Iceland: A partial right whale skull from the high latitude Pliocene Tjörnes Formation. *Palaeontology* 60(2): 141-148. doi:10.1111/pala.12275.
- 17) Bever, G.S., Lyson, T.R., **Field, D.J.**, Bhullar, B.-A.S. 2016. The amniote temporal roof and the diapsid origin of the turtle skull. *Zoology* 119(6): 471-473. doi:10.1016/j.zool.2016.04.005.
- 16) Balanoff, A.M., Bever, G.S., Colbert, M.W., Clarke, J.A., **Field, D.J.**, Gignac, P.M., Ksepka, D.T., Ridgely, R., Smith, N.A., Torres, C., Walsh, S., Witmer, L. 2016. Best practices for digitally constructing endocranial casts: Examples from birds and their dinosaurian relatives. *Journal of Anatomy* 229(2): 173-190. doi:10.1111/joa.12378. **[COVER]**
- 15) Dumont, M., Tafforeau, P., Bertin, T., Bhullar, B.-A.S., **Field, D.**, Schulp, A., Strilisky, B., Thivichon-Prince, B., Viriot, L., Louchart, A. Synchrotron imaging of dentition reveals insights into the biology of *Hesperornis* and *Ichthyornis*, the 'last' toothed birds. 2016. *BMC Evolutionary Biology* 16(1): 1-28. doi:10.1186/s12862-016-0753-6.
- 14) **Field, D.J.**, Leblanc, A., Gau, A., Behlke, A.D. 2015. Pelagic neonatal fossils support viviparity and precocial life history of Cretaceous mosasaurs. *Palaeontology* 58(3): 401-407. doi:10.1111/pala.12165.
- 13) Prum, R.O., Berv, J.S., Dornburg, A., **Field, D.J.**, Townsend, J.P., Lemmon, E.M., Lemmon, A.R. 2015. A comprehensive phylogeny of birds (Aves) using targeted next generation DNA sequencing. *Nature* 526: 569-573. doi:10.1038/nature15697. Includes associated [News and Views](#) article.
- 12) Bever, G.S., Lyson, T.R., **Field, D.J.**, Bhullar B.-A.S. 2015. Evolutionary origin of the turtle skull. *Nature* 525: 239-242. doi:10.1038/nature14900.
- 11) Hsiang, A., **Field, D.J.**, Behlke, A.D., Davis, M.B., Racicot, R.A., Webster, T.H., Gauthier, J.A. 2015. The origin of snakes: revealing the ecology, behavior, and evolutionary history of early snakes using genomics, phenomics, and the fossil record. *BMC Evolutionary Biology* 15: 87. doi:10.1186/s12862-015-0358-5. **[WINNER OF THE G.G. SIMPSON PRIZE]**
- 10) Feo, T.J., **Field, D.J.**, Prum, R.O. 2015. Barb geometry of asymmetrical feathers reveals a transitional morphology in the evolution of avian flight. *Proceedings of the Royal Society B* 282: 20142864. <http://dx.doi.org/10.1098/rspb.2014.2864>. **[WINNER OF THE G.G. SIMPSON PRIZE]**
- 9) Snow, S., **Field, D.J.**, Musser, J.M. 2015. Interspecific competition in *Grallaria antipittas*: observations at a feeder. *Bulletin of the Peabody Museum of Natural History* 56(1): 89-93.
- 8) **Field, D.J.**, Gauthier, J.A., King, B.L., Pisani, D., Lyson, T.R., Peterson, K.J. 2014. Toward consilience in reptile phylogeny: microRNAs support an archosaur, not lepidosaur, affinity for turtles. *Evolution & Development* 16(4): 189-196. doi:10.1111/ede.12081. **[COVER]**
- 7) **Field, D.J.**, Brown, C., Lynner, C., Darroch, S.A.F. 2013. Skeletal correlates for body mass estimation in modern and fossil flying birds. *PLoS ONE* 8(11): e82000. doi:10.1371/journal.pone.0082000.
- 6) **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. **[WINNER OF THE G.G. SIMPSON PRIZE]**
- 5) McNamara, M.E., Briggs, D.E.G., Orr, P.J., **Field, D.J.**, Wang, Z. 2013. Experimental maturation of feathers: implications for reconstructions of fossil feather colour. *Biology Letters* 9(3): 20130184.
- 4) Longrich, N., **Field, D.J.** 2012. *Torosaurus* is not *Triceratops*: Ontogeny in chasmosaurine ceratopsids as a case study in dinosaur taxonomy. *PLoS ONE* 7(2): e32623. doi:10.1371/journal.pone.0032623.

- 3) **Field, D.J.**, Ben-Zvi, M., Lin, S.C., Goldbogen, J.A., Shadwick, R.E. 2011. Convergent evolution in rorqual whales and pelicans driven by similar feeding mechanics. *Anatomical Record* 294: 1273–1282. **[COVER]**
- 2) Longrich, N., Tokaryk, T., **Field, D.J.** 2011. Mass extinction of birds at the Cretaceous-Paleogene (K-Pg) boundary. *Proceedings of the National Academy of Sciences* 108(37): 15253-15257.
- 1) **Field, D.J.**, Campbell-Malone, R., Goldbogen, J.A., Shadwick, R. 2010. Quantitative computed tomography of humpback whale (*Megaptera novaeangliae*) mandibles: mechanical implications for rorqual lunge-feeding. *Anatomical Record* 293: 1240-1247.

II: PEER REVIEWED PAPERS IN SUBMISSION, REVIEW OR REVISION (LAB MEMBERS IN BOLD):

- 10) Pimiento, C., et al. (35 authors, incl. 19 undergraduates). The extinct marine megafauna of the Phanerozoic.
- 9) **Brocklehurst, N. & Field, D.J.** Tip dating and Bayes factors provide insight into the radiation of crown birds across the end-Cretaceous mass extinction. *In submission*. **[NB postdoc]**
- 8) **Kuo, P.-C., Navalón, G.,** Benson, R.B.J., **Field, D.J.** Macroevolutionary drivers of morphological disparity in the avian quadrate. *In submission*. **[PCK PhD student; GN postdoc]**
- 7) **Steell, E.M.,** Hsiang, A.Y., Benson, R.B.J., **Field, D.J.** The relative homoplasy index: a new cross-comparable metric for quantifying homoplasy in discrete character datasets. *In submission*. **[EMS PhD student]**
- 6) Peacock, J., Benson, M.A., Greene, N.T., Tollin, D.J., **Field, D.J.,** Spellman, G.M. The morphology and mechanics of the middle ear in the barn owl (*Tyto alba*). *In revision*.
- 5) Berv, J.S., Singhal, S., **Field, D.J.,** et al. Molecular early burst associated with the diversification of birds at the K–Pg boundary. *In review*.
- 4) **Crane, A., Benito, J., Chen, A.,** Musser, G., Torres, C., Clarke, J.A., Lautenschlager, S., Ksepka, D.T., **Field, D.J.** Taphonomic damage obfuscates interpretation of the retroarticular region of the *Asteriornis* mandible. *In review*. **[AC MASTER'S STUDENT; JB AND AC POSTDOCS]**
- 3) Dornburg, A., et al. (7 authors). Collapsing hotspots, extinction, and recovery: The evolutionary history of herbivorous reef fishes. *In revision*.
- 2) Smithwick, F.M., et al. (5 authors). Colour patterns in the early Eocene stem upupiform bird *Messelirrisor*. *In revision*.
- 1) **Klein, C.G.,** et al. (6 authors). Competing hypotheses for the early evolution of crown Squamata: Evidence for delayed emergence of major squamate clades. *In revision*.

III: PHD THESIS

Field, D.J. Macroevolutionary patterns in Avialae: The complex evolution of avian biogeography, and the origin of avian flight. PhD Dissertation, Yale University. **[RECIPIENT OF THE PHILIP M. ORVILLE PRIZE]**

IV: SOFTWARE

BendCT: Bone flexural rigidity estimation from CT data using MATLAB. See **Field, D.J.** et al. 2011.

V: OTHER PUBLICATIONS (NON-PEER REVIEWED)

Field, D.J. 2020. How we discovered the world's oldest modern bird skull. [Nature Ecology & Evolution Blog](#).

Field, D.J. & Hsiang, A.Y. 2018. Feathered fruit-eater frozen in fossil form. [Biomed Central Series Blog](#).

Field, D.J. 2018. How birds survived the dinosaur-killing asteroid. [The Conversation](#).

Field, D.J. & Hsiang, A.Y. 2015. Limbless Triumph: The origin and diversification of snakes. [Biomed Central Series Blog](#).

Luque, J., ..., **Field, D.J.,** et al. 2015. Diversity in all its forms: IPC4 as an invaluable opportunity for STEPPE grant recipients. *GSA Today* 25(1): 24-25.

SELECTED HONOURS AND NOMINATIONS

- 2023 (also 2020, 2022): Shortlist, Cambridge University Students' Union Student-led Teaching Award
2022: Honorary Member, British Waterfowl Association
2021, 22: Shortlist (Top 10), Blavatnik Awards for Young Scientists in the United Kingdom, Life Sciences
2021: Nominee, Philip Leverhulme Prize in Earth Sciences
2021: Nominee, Vice Chancellor Awards for Impact and Engagement
2021: [Diversity best paper award](#) (Kimball et al. 2020, *A Phylogenomic Supertree of Birds*)
2019-21: Best Performing Associate Editor: *Proceedings of the Royal Society B*, 2019-2021
2019: UK Research and Innovation Future Leaders Fellow
2019: Winner, [Royal Society Photography Competition](#), Animal Behaviour
2018: Soc. of Systematic Biologists Publisher's Award (Berv & Field 2018, *Genomic signature of an avian Lilliput effect across the K-Pg extinction*)
2016: Philip M. Orville Prize (outstanding research and scholarship in Yale Earth Sciences)
2014: W.D. Hamilton Award, Society for the Study of Evolution
2014: Cas Lindsey Prize, Canadian Society of Zoologists
2014: David and Marvalee Wake Award, Society for Integrative and Comparative Biology
2013: G.G. Simpson Prize (exceptional first-authored paper concerning evolution and the fossil record by a Yale student; co-authored publications also received the Simpson Prize in 2015 and 2016)
2013: Estwing Hammer Prize (exceptional performance as a Yale geology graduate student)
2013: William S. Hoar Award, Canadian Society of Zoologists
2011: Canadian Postgraduate Study Award, Golden Key International Honors Society
2010: Mary and Joseph Bryant scholarship for wildlife research, University of British Columbia
2010: Best Talk, UBC Multidisciplinary Undergraduate Research Conference
2009: Jamie Smith Memorial Scholarship (for field study in Africa; University of British Columbia)

RESEARCH FUNDING

I: CAMBRIDGE

- 2023-26: UK Research and Innovation Future Leaders Fellowship Renewal (£460,267)
2023-26: Australian Research Council Discovery Project [co-PI on proposal led by Prof. Alistair Evans] (\$467,058 AUD)
2023-25: Nawa Bekker Fellowship [international research fellowship to host Dr Andrzej Wolniewicz] (295,000 PLN)
2023-25: Swiss Mobility Postdoctoral Fellowship [Swiss Postdoc.Mobility Fellowship to host Dr Olivia Plateau] (126,527 CHF)
2023-25: Royal Society [Newton International Fellowship to host Dr Carla du Toit] (£131,250)
2021-23: Japan Society for the Promotion of Science [overseas research fellowship to host Dr Junya Watanabe]
2019-23: UK Research and Innovation Future Leaders Fellowship (£911,790)
2019-21: Royal Society [Newton International Fellowship to host Dr Junya Watanabe] (£99,750)
2019-20: Royal Society Research Grant (£19,910)
2019: Isaac Newton Trust Early Career Support Scheme (£36,124)
2019: Systematics Research Fund (Linnean Society of London & Systematics Association) (£1,265)
2018: Japan Society for the Promotion of Science [overseas research fellowship to host Dr Junya Watanabe; declined]

II: SELECTED FUNDING PRE-CAMBRIDGE

- 2017-18: 50th Anniversary Prize Fellowship, University of Bath (2-year research fellowship and proleptic faculty position)
2012-16: NSERC Alexander Graham Bell Canada Graduate Scholarship Doctoral Level (converted to PGS in USA) (\$105,000 CAD)
2015: National Science Foundation Doctoral Dissertation Improvement Grant (\$21,203 USD)
2015: Yale Institute for Biospheric Sciences Dissertation Improvement Grant (\$4,000 USD)
2015: Stephen J. Gould Award (Paleontological Society) (\$800 USD)
2015: Evolving Earth Foundation Research Grant (\$2,952 USD)
2015: Alexander Wetmore Memorial Research Award (American Ornithologists' Union) (\$2,486 USD)
2015: Frank M. Chapman Ornithological Research Grant (American Museum of Natural History) (\$2,610 USD)
2014: Smithsonian Predoctoral Fellowship (\$11,200 USD)
2014: IPC4 Travel Grant (Palaeontological Association) (£750)
2014: STEPPE Travel Award (\$2,500 USD)
2014: Jackson School of Geosciences Student Travel Award (Society of Vertebrate Paleontology) (\$600 USD)
2014: NESCent Travel Award
2013: EPCOR Water Ltd. Student Travel Award (Canadian Society of Zoologists) (\$500 USD)
2012: Sir James Loughheed Award of Distinction, PhD level (Government of Alberta) (\$20,000 CAD)
2012: Jurassic Foundation Research Grant (\$1,100 USD)
2011-12: NSERC Alexander Graham Bell Canada Graduate Scholarship M (converted to PGS in USA) (\$17,500 CAD)
2011: Sir James Loughheed Award of Distinction, master's level (Government of Alberta) (\$15,000 CAD)
2011: National Geographic Society Young Explorer's Grant #EC0488-11 (\$4,300 USD)
2011: YIBS Center for Field Ecology Pilot Grant (\$2,000 USD)
2011: Dinosaur Research Institute Scholarship for Neoceratopsian Research (\$1,500 USD)
2011: Jurassic Foundation Research Grant (\$1,000 USD)
2010-16: Yale University Graduate Fellowship

- 2010: Jackson School of Geosciences Competitive Graduate Fellowship (U Texas at Austin; declined) (\$60,000 USD)
 2010: National Sciences and Engineering Research Council Undergraduate Student Research Award (\$6,000 CAD)
 2009: National Sciences and Engineering Research Council Undergraduate Student Research Award (\$6,000 CAD)

SELECTED INVITED TALKS AND KEYNOTE PRESENTATIONS

I: ACADEMIC AUDIENCES

- 2023: Ecology, Evolution, and Environment Seminar, Flinders University, **Australia**
 2023: The Chinese University of Hong Kong, Second International Pennaraptoran Dinosaur Symposium, **Hong Kong**
 2022: Two special lumps of stone: Maastrichtian fossils illuminate the origin of birds. Natuurhistorische Museum Maastricht, **Netherlands**
 2022: Invited symposium participant, 'The appearance and loss of flight in paravians', IPC6, Khon Kaen, **Thailand**
 2022: Consorcio Universidades por la Ciencia, **Mexico**
 2022: Contributions of the British fossil record to palaeobiology, invited symposium participant, Natural History Museum, London, **UK**
 2022: Tetrapods Club, London, **UK**
 2022: Canadian Society of Zoologists, Moncton, New Brunswick, **Canada**
 2022: Palaeontological Museum of the University of Zürich, **Switzerland**
 2022: Sedgwick Club Conference invited speaker, University of Cambridge, **UK**
 2022: Behaviour, Ecology and Evolution Seminar, Department of Zoology, University of Cambridge, **UK**
 2021: Ecology and Evolution Seminar Series, Imperial College London, **UK**
 2021: Edward Grey Institute of Field Ornithology, University of Oxford, **UK**
 2021: Nuttall Ornithological Club, Harvard University, Cambridge, Massachusetts, **USA**
 2020: The Ohio University, Ohio Centre for Ecological and Evolutionary Studies Seminar Series, **USA**
 2020: Agenda Cultural y Académica, Jardín Botánico de Bogotá, **Colombia**
 2020: [Colegio Nacional](#), **Mexico**
 2020: [Uniwersytet Przyrodniczy we Wrocławiu](#) (Wrocław University of Environmental and Life Sciences), **Poland**
 2020: Great Western 4 Palaeobiology Discussion Group, University of Bristol, **UK**
 2019: XXVI Brazilian Congress of Paleontology, Uberlândia, **Brazil**
 2019: Uppsala Universitet, Department of Organismal Biology Frontiers Seminar Series, **Sweden**
 2019: Denver Museum of Nature and Science, Department of Earth Sciences departmental colloquium, **USA**
 2019: University of Zürich/ETH Zürich Ecology, Evolution, Environment & Behaviour joint seminar series, **Switzerland**
 2019: Keynote speaker, Chalk and Flint International Symposium, Maastricht, **Netherlands**
 2019: Keynote speaker, Darwin Day 2019, University of East Anglia, Norwich, **UK**
 2019: Oxford Palaeontology Symposium, University of Oxford, **UK**
 2019: University of Sheffield, Department of Animal and Plant Sciences seminar series, **UK**
 2019: University of Durham, Ecology, Evolution, and Environment speaker series, Department of Biological Sciences, **UK**
 2019: British Trust for Ornithology, Thetford, **UK**
 2019: Geological Curators Group Annual General Meeting, Cambridge, **UK**
 2019: University of Cambridge, Department of Earth Sciences seminar series, **UK**
 2019: Evolution and Development Seminar Series, Department of Zoology, University of Cambridge, **UK**
 2018: Lapworth Lecture, Lapworth Museum of Earth Sciences, Birmingham, **UK**
 2018: European Molecular Biology Lab, Blue Seminar, Heidelberg, **Germany**
 2018: Universidad Nacional Autónoma de México, Instituto de Geofísica, Mexico City, **Mexico**
 2018: Universidad Nacional Autónoma de México, Facultad de Ciencias, Mexico City, **Mexico**
 2018: Universidad Nacional Autónoma de México, Instituto de Biología, Mexico City, **Mexico**
 2018: Symposium on Genes, Sex and Behaviour, Universidad Nacional Autónoma de México, Instituto de Ecología, Mexico City, **Mexico**
 2018: ÉLVONAL Conference on Social Evolution, Hortobágy, **Hungary**
 2018: University of Hong Kong, International Pennaraptoran Dinosaur Symposium, **Hong Kong**
 2018: Museum Für Naturkunde, Seminar Series, Berlin, **Germany**
 2018: Evolution in the 21st Century: Inaugural Conference of the Milner Centre for Evolution, Bath, **UK**
 2018: University of Cambridge, Department of Earth Sciences, **UK** (job talk)
 2018: Biology and Biochemistry research day, University of Bath, **UK**
 2017: Sun Yat-sen University, Guangzhou, **China** (Two Lectures)
 2017: University College Cork, Biological, Earth and Environmental Science Seminar Series, **Ireland**
 2017: Swedish Museum of Natural History, Phylogenetics Seminar, Stockholm, **Sweden**
 2017: Macroevolution and the Vertebrate Fossil Record, SVPSCA special symposium, University of Birmingham, **UK**
 2017: University of Bristol Palaeontology Discussion Group, Bristol, **UK**
 2016: Yale University, Verrill Symposium (150th Anniversary of the Yale Peabody Museum of Natural History), New Haven, CT, **USA**
 2016: National Geographic Headquarters, Closer Look Seminar, Washington DC, **USA**
 2016: Zoology Seminar, Smithsonian National Museum of Natural History, Washington DC, **USA**
 2016: University of Bath, **UK** (job talk)
 2016: University of Bristol, Palaeobiology Research Group, **UK**
 2016: University of Oxford, Palaeobiology Research Group, **UK**
 2016: UC Berkeley, Vertebrate Paleontology Lunch, **USA**
 2016: Yale University, Geology & Geophysics Postdoctoral Seminar, New Haven, CT, **USA**

- 2015: Fundy Geological Museum, Parrsboro, NS, **Canada**
- 2015: Royal Ontario Museum, Toronto, ON, **Canada**
- 2015: Royal Tyrrell Museum Speaker Series, Drumheller, AB, **Canada**
- 2014: National Evolutionary Synthesis Center, Durham, NC, **USA**
- 2014: Ornithology Exchange, Smithsonian National Museum of Natural History, Washington DC, **USA**
- 2013: Brown University, Department of Ecology and Evolutionary Biology 'Brown Bag' Seminar, Providence, RI, **USA**
- 2011: University of Iceland Whale Research Station (Two Lectures), Húsavík, **Iceland**

II: PUBLIC LECTURES AND EVENTS

- 2022: Cumberland Geological Society, UK
- 2022: Bournemouth Natural Science Society, UK
- 2022: [Cambridge Festival](#), UK
- 2022: British Waterfowl Association, UK
- 2022: Toft Village Fireside, UK
- 2022: Cambridge Natural History Society, UK
- 2022: University Museum of Zoology volunteers, UK
- 2021: Cambridge University Scientific Society, UK
- 2021: Devonshire Geology Association, UK
- 2021: Topsham Birdwatching and Naturalists Society, UK
- 2021: Barnstaple U3A Geology Club, Barnstaple, UK
- 2021: Altrincham and District Natural History Society, Altrincham, UK
- 2021: Exmouth and District U3A monthly talk, Exmouth, UK
- 2021: Larmor Society (St John's College Natural Sciences Society), UK
- 2021: Friends of the Sedgwick Museum, Cambridge, UK
- 2020: University of Cambridge [Alumni Festival](#), Cambridge, UK
- 2020: Cambridge Science Festival, Cambridge, UK
- 2020: Geological Society of Glasgow, UK
- 2020: Cambridgeshire Bird Club, Cambridge, UK
- 2020: Cambridgeshire Geological Society, Cambridge, UK
- 2020: Sedgwick Club, Cambridge, UK
- 2020: Canford School Upper Sixth Remote College Programme, Canford, UK
- 2020: Connecticut Parrot Club, USA
- 2019: British Science Festival, Coventry, UK
- 2019: Cambridge Pint of Science Festival, Cambridge, UK
- 2019: Cambridge University Ornithology Society, Cambridge, UK
- 2019: Open University Geological Society, Reading, UK
- 2019: Royal Society for the Protection of Birds, Bath, UK
- 2019: Friends of the Sedgwick Museum, Cambridge, UK
- 2019: Amersham Birdwatching Club, Amersham, UK
- 2019: Biological Sciences Taster Day: Darwin, Christ's College, Cambridge, UK
- 2018: Bath Geological Society, Bath, UK
- 2017: Oxford Geology Group, Oxford, UK
- 2017: Canford Festival of Ideas, Canford School, Wimborne, UK
- 2016: Connecticut Audubon Society, USA
- 2016: New York Paleontological Society, USA
- 2016: Yale Peabody Museum, USA
- 2016: Connecticut Parrot Club, USA
- 2015: Hartford Audubon Society, USA
- 2015: New Haven Bird Club, USA
- 2015: Connecticut Parrot Club, USA
- 2014: Connecticut Audubon Society, USA
- 2014: O.C. Marsh Fellows, Peabody Museum of Natural History, New Haven, CT, USA
- 2014: Smithsonian National Museum of Natural History, Senate of Scientists Lightning Talks, Washington DC, USA
- 2012: Marmarth Research Foundation, Marmarth, ND, USA
- 2012: New Haven Public Library, 'Science in the News' open lecture, New Haven, CT, USA

PREVIOUS POSITIONS HELD

- 2017-18: 50th Anniversary Prize Fellow (research fellowship and proleptic lectureship), Milner Centre for Evolution, University of Bath, UK
- 2016: Postdoctoral Associate, Department of Geology & Geophysics, Yale University, USA
- 2014: Smithsonian Predoctoral Fellow, Division of Birds, Smithsonian National Museum of Natural History, Washington D.C., USA
- 2010-16: Yale Graduate Fellow, Department of Geology & Geophysics, Yale University, USA
- 2010: NSERC Undergraduate Student Research Award-funded researcher, Department of Zoology, UBC, Vancouver, Canada
- 2009: Volunteer curatorial assistant, Cowan Vertebrate Museum, University of British Columbia, Vancouver, Canada
- 2009: NSERC Undergraduate Student Research Award-funded researcher, Department of Zoology, UBC, Vancouver, Canada

2008: Preparation Lab Technician and Field Assistant, Royal Tyrrell Museum of Palaeontology, Drumheller, Canada
2007: Science Educator, Royal Tyrrell Museum of Palaeontology, Drumheller, Canada

SELECTED FIELD EXPERIENCE

2023: Danum Valley, Borneo. Zoology and tropical ecology.
2022: Smithsonian Tropical Research Institute, Panama. Zoology and tropical ecology.
2020-: London Clay, England. Vertebrate palaeontology.
2019-: Corral Bluffs, Colorado. Vertebrate palaeontology and K–Pg stratigraphy.
2019: Isle of Skye, Scotland. **[Discovered the ‘Rosetta Stone’ specimen of *Marmaropteron*—Jones et al. 2022, PNAS]**
2018: Chamela-Cuixmala Biosphere Reserve, Jalisco, Mexico. Ecology and evolutionary biology.
2018: Denver Basin, Colorado. Vertebrate palaeontology and K–Pg stratigraphy.
2017: South Africa. Introduction to Avian Biodiversity and Ecology (NERC DTP training course instructor).
2014: Fruita Paleontological Area, Colorado. Vertebrate palaeontology.
2013: Tapichalaca Reserve, Ecuador. Animal behavior. **[Observations of antpitta behaviour—Snow et al. 2015, Peabody Bulletin]**
2012: North Dakota & Montana. Vertebrate palaeontology.
2012: Painted Desert Wilderness and Petrified Forest National Park, Arizona. Vertebrate palaeontology.
2011: South Africa & Namibia. Geology.
2011: Húsavík, Iceland. **[Collected the oldest significant vertebrate fossil from Iceland—Field et al. 2017, Palaeontology]**
2011: Ad-Dakhla, Western Sahara. Vertebrate palaeontology.
2011: Zagora, Morocco. Invertebrate palaeontology.
2010: Milk River Natural Area, Alberta. Vertebrate palaeontology.
2009: Hvalfjörður, Iceland. Cetacean morphology.
2009: Mpala Research Station, Laikipia, Kenya. Community ecology.
2008: Milk River Natural Area, Alberta. Vertebrate palaeontology.
2007-08: Dinosaur Provincial Park, Alberta. Vertebrate palaeontology.

In addition to the professional fieldwork above, I am an enthusiastic wildlife photographer. My [wildlife photography](#) has appeared in academic publications, field guides, press releases, magazine articles, museum and zoo exhibits, television, IUCN reports and other conservation publications, wildlife identification apps (e.g., Merlin Bird ID), and on journal covers. In 2019 I won the Royal Society Photography Competition for Animal Behaviour.

TEACHING & EXAMINING

I: UNIVERSITY OF CAMBRIDGE, DEPARTMENT OF EARTH SCIENCES

2023-: Lecturer, Part II Earth Sciences
2022-23: Examiner, Part IA Earth Sciences
2021-23: Co-coordinator, IA Earth Sciences
2021-: Lecturer, IA Earth Sciences
2020-22: Lecturer, IB Earth Sciences A
2021-22: Examiner, Part III Earth Sciences
2020: Part II Earth Sciences field trips to Suffolk, Sussex, Norfolk
2019-: Lecturer, Part III Earth Sciences
2020-: IB Earth Sciences Field Course, Dorset
2020: Examiner, Part IB Earth Sciences A
2019: Part III Earth Sciences Field Course, Spain
2019: Examiner, Part II Earth Sciences

II: UNIVERSITY OF CAMBRIDGE, DEPARTMENT OF ZOOLOGY

2023: Tropical Ecology Field Course, Borneo
2022-: Co-coordinator, Part II Zoology ZMI
2022: Tropical Ecology Field Course, Panama
2022: Lakenheath Fen Field Trip
2021: Zoology/Plant Sciences Field course
2019-: Lecturer, Part II Zoology ZMI
2019-: Examiner, Part II Zoology ZMI

III: CHRIST’S COLLEGE, CAMBRIDGE

2021-: Supervisor for Part IA Earth Sciences
2020-: Director of Studies/Subject Adviser (Earth Sciences)
2020-: Supervisor for Part IB Earth Sciences A
2020-: Supervisor for Part II Zoology
2020-: Supervisor for Part III Earth Sciences
2020-: Lecturer for Christ’s College-King’s College Bridging Course
2019-21: Director of Studies (Pt II Zoology)

IV: SELECTED OTHER TEACHING

- 2022: Guest Lecturer on 'Avian marine megafauna' for the Palaeontological Institute of the University of Zürich, **Switzerland**
- 2020: Guest Lecturer on 'Living Dinosaurs' for GEOS 1054: Age of Dinosaurs, Virginia Tech, **USA**
- 2019: Instructor, Vertebrate Palaeobiology, Northwest University China/Cambridge summer school, **UK**
- 2018: Instructor, PhD Course in Evolutionary Biology, European Molecular Biology Lab, Heidelberg, **Germany**
- 2018: Instructor, Current Trends in Ecology and Evolution (international postgraduate course), UNAM, Mexico City, **Mexico**
- 2018: Instructor for the Massive Open Online Course (MOOC) "[Understanding and Teaching Evolution](#)" by [FutureLearn](#)
- 2017: Instructor, 4th Sun Yat-sen Summer School in Ecology and Evolution, Sun Yat-sen University, Guangzhou, **China**
- 2017: Instructor, Introduction to Avian Biodiversity (NERC DTP training course), **South Africa**
- 2017: Assessor, literature review for master's students (University of Bath Department of Biology & Biochemistry)
- 2016: Teaching Fellow, Yale ANTH 329/829 (Primate Diversity and Evolution)
- 2015: Teaching Fellow, Yale G&G 205 (Natural Resources and Sustainability)
- 2013: Teaching Fellow, Yale EEB 290/291L (Comparative Vertebrate Anatomy), EEB 272 (Ornithology), G&G 720 (Seminar in Systematics)
- 2012: Teaching Fellow, Yale G&G 125/E&EB 125 (History of Life) and G&G 631 (Vertebrate Paleontology)
- 2011: Teaching Fellow, Yale G&G 550 (Paleontology & Evolutionary Theory) and G&G 125/EEB 125 (History of Life)

V: THESIS EXAMINING

- 2023: Internal Examiner, PhD viva of Haobo Robert Yuan, Department of Zoology, University of Cambridge
- 2023: External Examiner, PhD viva of Zichuan Qin, School of Earth Sciences, University of Bristol
- 2022: Internal Examiner, PhD viva of Alexandra Howard, Department of Zoology, University of Cambridge
- 2022: External Examiner, PhD viva of Olivia Plateau, University of Fribourg, Switzerland
- 2022: Internal Examiner, PhD viva of Lucy Roberts, Department of Zoology, University of Cambridge
- 2021: External Examiner, PhD viva of Carolina Karoullas, School of Biological Sciences, University of Manchester
- 2020: Internal Examiner, MPhil viva of Oscar Wilson, Department of Zoology, University of Cambridge
- 2020: Internal Examiner, PhD viva of Luke Grinham, Department of Earth Sciences, University of Cambridge
- 2019: External Examiner, MSc viva of Andrea Estandía, Department of Biosciences, Durham University
- 2019: Internal Examiner, MPhil viva of Roxanne Armfield, Department of Zoology, University of Cambridge
- 2018: External Examiner, PhD viva of Serjoscha Evers, Department of Earth Sciences, University of Oxford
- 2018: Internal Examiner, MPhil viva of Minky Phantratanamongkol, Department of Zoology, University of Cambridge

EDITORIAL SERVICE

I: EDITORIAL DUTIES

- 2022-25: Associate Editor, [Proceedings of the Royal Society B: Biological Sciences](#)
- 2022-: Editorial board, [Avian Systematics](#)
- 2021-23: Editor, [Palaeontology](#) and [Papers in Palaeontology](#)
- 2021-22: Guest Editor, [eLife](#)
- 2019-22: Associate Editor, [Proceedings of the Royal Society B: Biological Sciences](#)
- 2020-21: Guest Associate Editor, [Frontiers in Earth Science: Early Avian Evolution](#)
- 2019-20: Guest Editor, [Diversity: Origins of Modern Avian Biodiversity](#)

II: PEER REVIEW SERVICE, ALPHABETICAL

57 journals: *Acta Palaeontologica Polonica*, *Alcheringa*, *The Auk*, *Avian Research*, *Biology Letters*, *Biological Reviews*, *Bulletin of the British Ornithologists' Club*, *Communications Biology*, *Cotinga*, *Cretaceous Research*, *Current Biology*, *Diversity*, *Ecology and Evolution*, *eLife*, *Evolution*, *Frontiers in Earth Science*, *Genome Biology and Evolution*, *Geobios*, *Geological Magazine*, *Geoscience Communication*, *Gondwana Research*, *Journal of Anatomy*, *Journal of Avian Biology*, *Journal of Biogeography*, *Journal of Experimental Zoology B: Molecular & Developmental Evolution*, *Journal of Ornithology*, *Journal of Systematic Palaeontology*, *Journal of Systematics and Evolution*, *Journal of Vertebrate Paleontology*, *Life*, *Methods in Ecology and Evolution*, *Molecular Biology and Evolution*, *Molecular Ecology*, *Molecular Phylogenetics and Evolution*, *National Science Review*, *Nature*, *Nature Communications*, *Nature Ecology & Evolution*, *Paläontologische Zeitschrift*, *Palaeontologia Electronica*, *Palaeontology*, *Paleobiology*, *Papers in Palaeontology*, *PeerJ*, *PLoS ONE*, *Proceedings of the National Academy of Sciences of the USA*, *Proceedings of the Royal Society of London Series B: Biological Sciences*, *Revista del Museo Argentino de Ciencias Naturales*, *Royal Society Open Science*, *Scientific Reports*, *Systematic Biology*, *Trends in Ecology and Evolution*, *Vertebrata Palasiatica*, *Vertebrate Zoology*, *Wildfowl*, *Zoological Journal of the Linnean Society*, *Zootaxa*

6 book publishers: Academic Press, Cambridge University Press, CRC Press, Oxford University Press, Springer Open Books, University of California Press,

15 funding and research agencies: Alexander von Humboldt Foundation (**Germany**), BBSRC (**UK**), Cambridge-Africa ALBORADA Research Fund (**UK**), European Research Council (**EU**), Isaac Newton Trust (**UK**), Leverhulme Trust (**UK**), MacArthur Foundation (**USA**), National Research Development and Innovation Office (**Hungary**), National Sciences and Engineering Research Council (**Canada**), Royal Society Te Aparangi (**New Zealand**), The Royal Society (**UK**), Society of Systematic Biologists (**USA**), Stanford Synchrotron Radiation Lightsource (**USA**), Swiss National Science Foundation (**Switzerland**), UK Research and Innovation (member of Future Leader Fellowships Peer Review College)

PROFESSIONAL MEMBERSHIPS

Current: Society of Vertebrate Paleontology, Palaeontological Association, European Society for Evolutionary Biology, Society for the Study of Evolution, International Society of Vertebrate Morphology, Society of Systematic Biologists, Systematics Association

Past: Paleontological Society, Society for Integrative and Comparative Biology, American Ornithologists Union, Wilson Ornithological Society, Canadian Society of Zoologists, New York Academy of Sciences, The Explorers Club, American Cetacean Society, Golden Key International Honors Society, Sigma Xi

SELECTED SERVICE

I: UNIVERSITY OF CAMBRIDGE

- 2023-: Training Lead, NERC C-CLEAR DTP
- 2022-: Senior Management Team, University of Cambridge Museum of Zoology
- 2022-: Senior Treasurer, The Sedgwick Club (University of Cambridge Earth Sciences society)
- 2020-: Co-Director, Cambridge Biotomography Centre
- 2020-: Senior Treasurer, Cambridge University Ornithology Society
- 2020-: Senior Treasurer, Cambridge University Ice Hockey Club (Men's and Women's) **[2022 Cambridge Sports Club of the Year]**
- 2020-: Panel Member, British Antarctic Survey-University of Cambridge joint fellowship funding seminar
- 2019-: Lead Organiser for NERC C-CLEAR DTP "Evolution of our Planet" Advances Course (lectures and museum visits)
- 2019-: Steering Committee, Sedgwick Museum of Earth Sciences

II: DEPARTMENT OF EARTH SCIENCES, UNIVERSITY OF CAMBRIDGE

- 2021-: Earth Sciences Teaching Committee
- 2021-: NERC C-CLEAR DTP palaeontology application coordinator
- 2021-: IA Earth Sciences Course Coordinator
- 2020-: Earth Sciences Teaching Review Member
- 2020-: A-Level recruitment video for Department of Earth Sciences
- 2019-: NST Part IB and Part II Subjects Fair, ESC Representative
- 2019-21: Co-organiser, Cambridge Department of Earth Sciences Seminar Series

III: CHRIST'S COLLEGE, CAMBRIDGE

- 2022: Development Sub-Committee on Naming
- 2022-: Co-Manager, Charles Darwin and Galápagos Islands Trust Fund
- 2022: MCR Liaison Committee
- 2021-23: Member of Council
- 2021-22: Financial Control and Risk Assurance Committee
- 2021: Working party on Fellow-Commoners and Bye-Fellows
- 2021: Mastership Interview Panel
- 2020-21: Mastership Shortlisting Committee
- 2020-: Admissions Interviewer for Natural Sciences (Biological)
- 2020-: Host, 'Meet the Fellows' initiative for MCR students
- 2019-: Development Committee

IV: EXTERNAL

- 2023: Member-at-large, Society of Avian Palaeontology and Evolution
- 2022-: Science advisory board, Chicxulub Center for Scientific Research and Advanced Studies, Mérida, Mexico
- 2022-: Advisory board for forthcoming 'Birds' exhibition at the Natural History Museum, London
- 2021-22: Curatorial assistance for the Cambridge Museum of Archaeology and Anthropology's exhibit 'Colour: Art, Science, and Power'
- 2021-: Curatorial assistance with ornithology collection, Saffron Walden Museum, Saffron Walden, Essex
- 2021: Peer Reviewer for the Smithsonian Institution Secretary's Research Prize (Smithsonian Congress of Scholars), Washington, D.C.
- 2020-21: Moderator for "virtual" Society of Vertebrate Paleontology Annual Meeting
- 2020-23: Host committee, 2023 Palaeontological Association Annual Meeting, Cambridge, UK [member of four-person 'core' organizing team]
- 2020: Best student presentation award committee, North American Ornithological Congress
- 2020: Society for the Study of Evolution: Mentor for ECRs Alexandria DiGiacomo (Harvard) and Ghislaine Cárdenas-Posada (Brown)
- 2019-: Scientific Committee, Society of Avian Palaeontology and Evolution
- 2019-: UKRI Future Leader Fellowships Peer Review College
- 2019: Session Chair, International Congress on Vertebrate Morphology 'Palaeontology' session (Prague, Czech Republic)
- 2018-: Colbert Poster Prize committee, Society of Vertebrate Paleontology
- 2018: Inaugural Milner Prize selection committee
- 2018: Scientific Committee, 1st Palaeontological Virtual Congress
- 2017-18: Organising committee, communications co-chair, session chair: Milner Centre for Evolution opening conference
- 2017: Session Chair, Society of Vertebrate Paleontology Annual Meeting, (Calgary, Canada)

- 2014: Session Chair, Evolution 2014 'Avian Evolution' session (Raleigh, NC)
- 2013-17: Society of Vertebrate Paleontology Northeast Regional Ambassador
- 2013: Host and lead organiser, SICB Joint DVM/DCB Northeastern Regional Meeting
- 2010: Canadian Society of Zoologists conference organisation and assistance (Vancouver, BC)
- 2009: UBC Ecology Curriculum Advisory Committee
- 2009: UBC Faculty of Science Student Representative

SELECTED OTHER LECTURES

- 2016: Yale Geology and Geophysics Open House: invited recruitment lecture on 'Paleontology at Yale'
- 2015: Invited 90-minute lecture 'The origin and evolution of birds' for Yale G&G 125/E&EB 125 "History of Life"
- 2015: Smithsonian lecture on avian flight evolution available on iTunesU
- 2014: Two invited lectures on bird evolution for Yale G&G 631 "Vertebrate Paleontology"
- 2014: 90-minute lecture 'The origin and evolution of birds' for Yale G&G 125/E&EB 125 "History of Life"
- 2013: Yale Geology and Geophysics Open House: invited recruitment lecture on 'Paleontology at Yale'
- 2012-16: Evolution Educator for AP high school students with Yale's 'Evolution Outreach Group'
- 2012: 90-minute lecture 'Flying Dinosaurs' for Yale G&G 631 "Vertebrate Paleontology"
- 2012: Lecture 'The evolution of fishes' for Yale G&G 125/E&EB 125 "History of Life"
- 2011-16: Yale Peabody Museum *Dinosaur Days* "Meet the Scientist" palaeontology educator
- 2011: 60-minute lecture 'Cladistics & Biogeography' for Yale G&G 550 "Paleontology / Evolutionary Theory"

OUTREACH

I: SELECTED MAJOR OUTREACH ACTIVITIES

- 2023-: Subject of forthcoming Pernel Media documentary 'The Great Bird Odyssey'
- 2022-: Scientific consultant for forthcoming NBC/Universal documentary 'Surviving Earth'
- 2022-: Advisory board for forthcoming 'Birds' exhibition at the Natural History Museum, London
- 2022: Featured in forthcoming documentary 'Mystery of the giant birds'
- 2022: Featured in forthcoming documentary 'After the meteorite'
- 2022: Scientific advisor for forthcoming Netflix series 'Life on our Planet'
- 2022: Featured in forthcoming six-part documentary 'The meteorite that changed the world: the story of Chicxulub'
- 2021: Featured in three-part documentary 'Birds', airing in France and Germany
- 2020: [New York Times "Lesson of the Day"](#) home-schooling exercise
- 2020: *Dawn of the Wonderchicken*. Physical exhibit on the world's oldest modern bird fossil at the Sedgwick Museum of Earth Sciences.
- 2020: [Dawn of the Wonderchicken Online](#): Online exhibit based on our physical exhibit to enable visitors during COVID-19 pandemic.
- 2020: "Build-a-bird" educational activity for the Cambridge Science Festival [*Activity moved online due to COVID-19](#)
- 2020: Dino Nerds for Black Lives Matter fundraiser panelist (online symposium and fundraiser)
- 2020: [Seeker online video on the "Wonderchicken"](#) (>130,000 views)
- 2018: [Bath Festival of Nature](#), representative for the Milner Centre for Evolution (public engagement about palaeontology and evolution)
- 2017: Scientific advisor for [Flap to the Future - The Game About Bird Flight and Adaptations](#)

II: SELECTED MEDIA EXPERIENCE

- 2022: Research on *Janavis* covered widely including [Science](#), [Nature](#), [The Guardian](#), [New Scientist](#), [BBC](#), [Smithsonian](#)
- 2022: Research on bird brain evolution covered by [Science](#)
- 2022: Research on avian evolution widely covered including [The New Yorker](#)
- 2020: [BBC](#) live radio interview on dinosaur extinction and bird evolution (interview from 20 minute mark until 40 minute mark)
- 2020: Research on *Asteriornis* very widely covered including [National Geographic](#), [CNN](#), [Science](#), [CBC](#), [BBC](#), [Scientific American](#), etc.
- 2019: [Australian Broadcasting Corporation](#) extended radio interview on bird extinction, evolution, and climate change
- 2018: Multiple research projects and interview in [National Geographic Magazine](#)'s May 2018 feature article on bird evolution
- 2018: Research on avian extinction widely covered including [National Geographic](#), [BBC](#), [CNN](#), [Science](#), [The Atlantic](#), [CBC](#)
- 2018: Research on origin of the bird skull widely covered including [National Geographic](#), [BBC](#), [CNN](#), [Science](#), [NPR](#), [The Guardian](#)
- 2018: Research on avian biogeography covered by the [BBC](#) and [Talk Radio](#)
- 2018: [Palaeocast](#) podcast interview on research into bird origins (~30 minutes)
- 2018: [Cosmic Shed](#) podcast interview on bird extinction and the science of Jurassic Park (~50 minutes)
- 2017: Live radio interview on evolution of flightlessness in emus and ostriches with the [Australian Broadcasting Corporation](#)
- 2017: Interview on pelican behavior and evolution with [KQED San Francisco](#)
- 2017: Scientific advisor for *Deep Look* (PBS Studios): www.youtube.com/watch?v=BfEboMmwAMw&feature=youtu.be
- 2017: Live radio interview with Australian Broadcasting Corporation on Emu and Ostrich biology
- 2016: Scientific advisor for online educational video series *Animalogic*
- 2016: [Palaeocast](#) podcast interview from the Society of Vertebrate Paleontology annual meeting
- 2016: Extended radio interview on bird evolution and dinosaurs on [NPR Connecticut](#) (The Colin McEnroe Show)
- 2015: Studio interview on Fox Business Channel's *Strange Inheritance Unpacked* about discovering dinosaur fossils
- 2015: Research on turtle evolution covered by [NBC](#), [Der Spiegel](#), and other news sources
- 2015: Research on snakes covered by the [New York Times](#), [NPR](#), and other news sources

- 2015: Research on mosasaurs covered by *Science*, [National Geographic 'Phenomena'](#) and other news sources
- 2015: Research on the evolutionary origins of feathers featured by [National Geographic 'Phenomena'](#) and other news sources
- 2014: Reptile phylogeny research featured by [NPR](#) (extended radio interview) and other news sources
- 2013: Feather taphonomy research featured by [Nature](#) and other news sources
- 2013: Interview on dissertation research featured by [The Integrative Paleontologists](#)
- 2012: Dinosaur research covered by the [New York Times](#), [BBC](#), [Smithsonian](#), and other news sources
- 2012: *American Association for the Advancement of Science* Member Spotlight (two video interviews)
- 2011: Bird extinction research featured by *TIME Magazine*, [BBC](#), and other news sources
- 2010: Whale morphology research featured by *LiveScience*, and other news sources

SELECTED WORKSHOPS AND TRAINING COURSES ATTENDED

- 2022: Inclusive Leadership Program for Academic and Research Leaders (Cambridge Personal and Professional Development)
- 2022: ITC Level 3 Award in in Outdoor First Aid
- 2020: How to be an Active Bystander at Work (Cambridge Personal and Professional Development)
- 2019: Recruitment Essentials: Appointing the Right Candidate (Academic Appointments), Cambridge PPD
- 2019: Supervising Graduate Students: workshop for supervisors in science and technology, Cambridge Centre for Teaching and Learning
- 2019: ITC Certificate in Outdoor First Aid at SCQF Level 6
- 2014: Paleobiological and Phylogenetic Approaches to Macroevolution (National Evolutionary Synthesis Center, Durham, USA)
- 2014: Bodega Bay Workshop in Applied Phylogenetics (University of California at Davis, USA)
- 2014: A Deeper Look into the Avian Brain (National Evolutionary Synthesis Center catalysis meeting participant, Durham, USA)
- 2013: Paleobiology Database Intensive Workshop in Analytical Paleobiology (Macquarie University, Sydney, Australia)
- 2009: Techniques in Field Ecology (Mpala Research Station, Laikipia, Kenya)

RESEARCH SUPERVISION AND MENTORSHIP

I: Postdocs

- 2023-25: Olivia Plateau, Swiss Mobility Postdoctoral Research Fellow, University of Cambridge
- 2023-25: Carla du Toit, Newton International Research Fellow, University of Cambridge
- 2023-25: Andrzej Wolniewicz, Nawa Bekker Research Fellow, University of Cambridge
- 2023-25: Fabio Alfieri, Swiss National Science Foundation Postdoctoral Fellow, University of Bern & University of Cambridge
- 2022-23: Juan Benito, UKRI-funded postdoctoral associate, University of Cambridge
- 2022-25: Albert Chen, Junior Research Fellow, Jesus College, University of Cambridge
- 2021-23: Guillermo Navalón, UKRI-funded postdoctoral associate, University of Cambridge
- 2021-22: Neil Brocklehurst, UKRI-funded postdoctoral associate, University of Cambridge
- 2020-21: Simon Ducatez, UKRI-funded postdoctoral associate, University of Cambridge
- 2019-23: Junya Watanabe, Newton International Research Fellow & JSPS Overseas Research Fellow, University of Cambridge

II: PhD students (primary supervisor)

- 2023-: Grace Broderick, Earth Sciences, University of Cambridge (October 2023-)
- 2022-: Maria Grace Burton, Earth Sciences, University of Cambridge (October 2022-)
- 2022-: Annabel Hunt, Earth Sciences, University of Cambridge (October 2022-)
- 2021-: Katrina van Grouw, Earth Sciences, University of Cambridge (October 2021-)
- 2021-: Bassel Arnaout, Earth Sciences, University of Cambridge (October 2021-)
- 2020-: Klara Widrig, Earth Sciences, University of Cambridge (October 2020-)
- 2020-: Armin Schmitt, Earth Sciences, University of Cambridge (October 2020-)
- 2020-: Oliver Demuth, Earth Sciences, University of Cambridge (October 2020-)
- 2020-: Pei-Chen Kuo, Earth Sciences, University of Cambridge (January 2020-)
- 2019-: Lizzy Steell, Earth Sciences, University of Cambridge (October 2019-)
- 2017-22: Albert Chen, Biology & Biochemistry, University of Bath (October 2017-; moved with me to University of Cambridge)
- 2017-22: Juan Benito, Biology & Biochemistry, University of Bath (October 2017; moved with me to University of Cambridge)

III: Master's Students (primary supervisor)

- 2023-24: Georgina Scott, University of Cambridge (MPhil)
- 2023-24: Christian Voiculescu-Holvad, University of Cambridge (MPhil)
- 2021-22: Abi Crane, University of Cambridge (MPhil)
- 2020-21: Maria Grace Burton, University of Cambridge (MPhil)
- 2019-20: Klara Widrig, Earth Sciences, University of Cambridge (MPhil)

IV: Final-year Project Students

- 2022-23: Kirsty Mellor; Part II Research Project Student
- 2022-23: Charles Gordon; Part II Research Project Student
- 2022-23: Astrid Xue; Part II Research Project Student
- 2022-23: Charlotte McConnell; Part II Research Project Student
- 2022-23: Georgina Scott; Part II Research Project Student

2022: Rachel Barham; Part II Research Project Student
 2021-23: Sophie Truepenny (Newnham College, Cambridge); Part II Research Project Student
 2021-22: Louis Fisher (Peterhouse, Cambridge); Part II Research Project Student
 2021-22: Joel Gayford (Christ's College, Cambridge); Part II Research Project Student
 2021-22: Alexandra Davies (Magdalene College, Cambridge); Part II Research Project Student
 2021-22: Natalie Rose (Fitzwilliam College, Cambridge); Part II Research Project Student
 2021-22: Emily Smith (St John's College, Cambridge); Part II Research Project Student
 2020-21: Zi Yang Chew, University of Cambridge (MEd)
 2019-20: Kit Baker, Earth Sciences, University of Cambridge (MEd)
 2018: Dania Kewbank, Biology & Biochemistry major, University of Bath (primary supervisor for final year thesis)
 2017: Georgina Halford, Biology & Biochemistry major, University of Bath (primary supervisor for final year thesis)
 2017: Jonathan Gooch, Biology & Biochemistry major, University of Bath (primary supervisor for final year thesis)
 2017: Joe Hardy, Biology & Biochemistry major, University of Bath (primary supervisor for final year thesis)
 2017: Jake Callaghan, Biology & Biochemistry major, University of Bath (primary supervisor for final year thesis)

V: PhD and Masters students (co-supervisor/advisor/assessor)

2023-: Giovanni Mussini, Earth Sciences, University of Cambridge (advisor, PhD)
 2023-: Bethany King, Earth Sciences, University of Cambridge (advisor, PhD)
 2022-23: Cara Newsam, Zoology, University of Cambridge (advisor, MSc)
 2022-23: Nikolai Madland Shorter, Zoology, University of Cambridge (advisor, MSc)
 2022-: Grace Varnham, Zoology, University of Cambridge (advisor, PhD)
 2022-: Andrés Alfonso Rojas, Zoology, University of Cambridge (advisor, PhD)
 2021-: Kit Baker, Earth Sciences, University of Cambridge (co-supervisor, PhD)
 2020-: Katie Delahooke, Earth Sciences, University of Cambridge (assessor, PhD)
 2020-: Eloise Hunt MSc, Imperial College & Natural History Museum, London (co-supervisor, PhD)
 2020-21: Emily Hillan, Zoology, University of Cambridge (second advisor, MPhil)
 2019-: Tom Jameson MSc, Zoology, University of Cambridge (advisor, PhD)
 2019-: Mhairi Reid, Earth Sciences, University of Oxford (co-supervisor, PhD)
 2019-22: Alexandra Howard MSc, MRes, Zoology, University of Cambridge (advisor, PhD)
 2019-22: Abigail Parker BSc, Zoology, University of Cambridge (advisor, PhD)
 2019-22: Lucy Roberts MEd, Zoology, University of Cambridge (advisor, PhD)
 2019-: Sean Herrón MEd, Earth Sciences, University of Cambridge (advisor, PhD)
 2018-22: Brigit Tronrud BSc, Earth Sciences, University of Oxford (co-supervisor, PhD)
 2018-22: Claire Tanner MSc, Biology & Biochemistry, University of Bath (co-supervisor, PhD)
 2018-19: Ben Igielman, Zoology, University of Cambridge (advisor, MPhil)
 2017-20: Dr Catherine Klein MSc, Biology & Biochemistry, University of Bath (co-supervisor, PhD)
 2017-18: Yimeng Li MSc, Biology & Biochemistry, University of Bath (co-supervisor, PhD)
 2017-18: Rebecca Lakin, Biology & Biochemistry, University of Bath (co-supervisor, PhD)
 2017-18: Conrad Van den Ende MSc, Biology & Biochemistry, University of Bath (co-supervisor, PhD)
 2017-19: Dr Fiann Smithwick MSc, Earth Sciences, University of Bristol (co-supervisor, PhD)

VI: Visiting researchers hosted

2023-24: Prof. David Fox (Christ's College Distinguished Visiting Scholars, University of Minnesota, USA)
 2023: José Antonio Palma Liberona (PhD candidate, Pontificia Universidad Católica de Chile, Santiago, Chile)
 2022-23: Grace Broderick (MSc University of Bristol)
 2021-22: Profs. Nancy Stevens and Patrick O'Conner (Christ's College Distinguished Visiting Scholars, The Ohio University, USA)
 2021: Matthieu Chotard (master's student in palaeontology, Université Rennes, France)
 2020: Garance Robin (master's student in palaeontology, Université Rennes, France)
 2019: Romeo Wong (BSc UCLA, USA)
 2018: Jacob Berv (Ecology and Evolutionary Biology PhD candidate, Cornell University, USA)
 2018: Alexandra Fischer (veterinary student, École Nationale Vétérinaire d'Alfort, France)

VII: Additional student mentorship

2022-23: Anna Thibieroz, Part II Earth Sciences Dissertation
 2019: Abi Crane (Homerton College, Cambridge)
 2018: Matt Granger, Biology & Biochemistry major, University of Bath (co-supervisor for professional placement project)
 2017: Naerhulan Halimubieke MSc, Biology & Biochemistry PhD Student, University of Bath (second examiner)
 2015: Eva Hoffman, Ecology & Evolutionary Biology major, Yale College. Co-author of 2017 *Nature Ecology & Evolution* paper
 2014-15: Michael Hanson, Ecology & Evolutionary Biology PhD student, Yale University. Co-author of 2018 *Nature* paper
 2013: Kyle Hornick, Authentic Science Research program, Darien High School
 2013-15: Adrien Gau, Geology and Geophysics major, Yale College. Co-author of 2015 *Palaeontology* paper
 2011-13: Christian Brown, Geology major, Yale College. Co-author of 2013 *PLoS ONE* (avian skeletal allometry) paper
 2011-13: William Gearty, Geology major, Yale College. Co-author of 2013 *PLoS ONE* (melanin concentration) paper

SELECTED CONFERENCE PRESENTATIONS (DJF PLATFORM PRESENTATIONS ONLY)

- 2023: Remarkable insights into avian evolution from the Type Maastrichtian. ICVM, Cairns, Australia.
- 2023: Two special lumps of stone: extraordinary insights into avian evolution from the Type Maastrichtian. SAPE, Málaga, Spain.
- 2023: Morphometry and computational biomechanics clarify the origins of avialan flight. Intl Pennaraptoran Symposium, Hong Kong.
- 2022: Biomechanical insight into the refinement of powered flight among crownward avialans. IPC6, Khon Kaen, Thailand.
- 2022: New insight from Owen's aviary. SVP, London, UK.
- 2021: Mesozoic fossil insight into the palaeognath-neognath anatomical dichotomy. SVP, online.
- 2021: The oldest modern bird fossil, & the early evolutionary history of crown birds. SICB, online.
- 2020: Late Cretaceous neornithine from Europe illuminates the origins of crown birds. SVP, online.
- 2020: Oldest modern bird clarifies the earliest stages of the extant bird radiation. NAOC, online.
- 2020: Incorporating fossils into studies of avian macroevolution. NAOC, online.
- 2019: Maastrichtian fossils and the origin of birds. Chalk and Flint International Symposium, Maastricht, The Netherlands.
- 2019: Climatic shifts drove major contractions in avian latitudinal distributions throughout the Cenozoic. SVP, Brisbane, Australia.
- 2019: Rapid diversification of birds following the end-Cretaceous mass extinction. EGU, Utrecht, The Netherlands.
- 2019: Exceptional Mesozoic fossils reveal the mosaic assembly of the crown bird skull. ICVM, Prague, Czech Republic.
- 2018: Evolution of neornithine ecology across the K-Pg boundary and through the Cenozoic. IPC5, Paris, France.
- 2018: Complete *Ichthyornis* skull reveals mosaic assembly of the avian head. SVP, Albuquerque, USA.
- 2018: Avian ecological selectivity in deep time. ÉLVONAL Conference, Hortobágy, Hungary.
- 2018: Strong avian ecological selectivity across the K-Pg: Evidence from lifestyle and body size. Lyell Meeting, London, UK.
- 2018: The Cretaceous-Paleogene transition, and the modernization of global avifaunas. International Pennaraptoran Symposium, Hong Kong.
- 2017: Ancestral ecological reconstructions and evidence of canopy destruction reveal strong ecological selectivity among birds across the K-Pg mass extinction. SVP, Calgary, Canada.
- 2017: Macroevolutionary Patterns in Avialae: Birdwatching through Geological Time. Invited symposium lecture for 'Macroevolution and the Vertebrate Fossil Record', Symposium on Vertebrate Palaeontology and Comparative Anatomy, Birmingham.
- 2016: Avian historical biogeography: integrating fossils, phylogeny, and ecological niche modeling to investigate dramatic Cenozoic range shifts. Geological Society of America, Denver, USA.
- 2016: Macroevolutionary patterns in total-clade Avialae: the complex evolution of avian biogeography, and the origin of avian flight. SVP, Salt Lake City, USA.
- 2016: Post-K/Pg Lilliput Effects, and the avian molecular clock. Society for Avian Paleontology and Evolution, Diamante, Argentina.
- 2015: Late evolutionary origin of modern avian flight feathers in Mesozoic stem group birds. SVP, Dallas, USA.
- 2015: Integrative Ornithology. Evolution, Guarujá, Brazil.
- 2014: Late evolutionary origin of modern bird flight inferred from shoulder allometry. Evolution, Raleigh, USA. **[Winner of the Hamilton Prize for best talk, Society for the Study of Evolution]**
- 2014: Reanalysis of vertebrate microRNAs reveals an archosaur rather than a lepidosaur affinity for turtles. SICB, Austin, USA. **[Winner of the Wake Award for best student talk in phylogenetics and comparative biology]**
- 2014: Toward consilience in reptile phylogeny. Genomes to Biomes, Montréal, Canada. **[Winner of the Cas Lindsey Prize for best student paper in behaviour, ecology or evolution]**
- 2014: Assessing body mass of fossil Avialae: best practices, and implications for paleoneuroscience. NESCent avian brain evolution catalysis meeting, Durham, USA.
- 2014: Molecular consilience in reptile phylogeny. Northeast Regional Vertebrate Evolution Symposium, New York, USA.
- 2013: Precise inference of powered flying ability in stem-group and crown-group avialans. Canadian Society of Zoologists Annual Meeting, University of Guelph, Canada. **[Winner of the Philip S. Hoar Award for best student talk]**
- 2013: Emerging consensus in the evolution of turtles. Northeast Regional Meeting of the Division of Vertebrate Morphology, Society for Integrative and Comparative Biology, New Haven, USA.
- 2013: Precise inference of avialan flight ability from shoulder joint dimensions. Society of Vertebrate Paleontology, Los Angeles, USA.
- 2012: Allometry of the avian pectoral girdle: implications for flight origins. Northeast Regional Meeting of the Division of Vertebrate Morphology, Society for Integrative and Comparative Biology, UMass Amherst, USA.
- 2011: Definitive evidence of stem-avian mass extinction at the K-Pg boundary. Palaeontological Association, Plymouth, UK.
- 2011: Convergent evolution driven by similar feeding mechanics in rorquals and pelicans. Secondary Adaptations of Tetrapods to Life in the Water, San Diego, USA.
- 2010: Lunging for a living: feeding mechanics of the world's largest animals. Mutidisciplinary Undergraduate Research Conference, Vancouver, Canada. **[Top oral presentation prize winner]**
- 2010: Convergent mechanical design of rorqual and brown pelican mandibles. Northeast Regional Meeting of the Division of Vertebrate Morphology, Society for Integrative and Comparative Biology, Harvard, USA.
- 2010: The mechanical design of rorqual mandibles: new insights from quantitative computed tomography. Canadian Society of Zoologists, Vancouver, Canada.