

DANIEL J. PEPPE

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EDUCATION

Ph.D., Yale University, Department of Geology and Geophysics 2009
M.Phil., Yale University, Department of Geology and Geophysics 2005
B.S. with honors in Geology, magna cum laude, St. Lawrence University 2003

PROFESSIONAL EXPERIENCE

Graduate Program Director, Baylor University, 2016 – Present
 Department of Geosciences
Associate Professor, Baylor University, Department of Geosciences 2015 – Present
Assistant Professor, Baylor University, Department of Geosciences 2009 – 2015
Post-doctoral Research Associate, Wesleyan University, 2008 – 2009
 Department of Earth and Environmental Sciences
Teaching Fellow, Yale University, Department of Geology and Geophysics: 2003 – 2008
 Stratigraphy and Sedimentology, History of Life, Physical Geology
Geoscience Intern, Mineral Management Service, Gulf of Mexico Region 2001

RESEARCH INTERESTS

Paleoclimatology, paleobotany, paleoecology, sedimentology, stratigraphy, ecology,
 biostratigraphy, paleomagnetism, geochronology, human evolution

HONORS AND FELLOWSHIPS

Bryce C. Brown Research Fellowship, Mayborn Museum 2017
Research Leave (competitive application), Baylor University 2015
Summer Sabbatical (competitive application), Baylor University 2014
Research Leave (competitive application), Baylor University 2013
Summer Faculty Teaching Institute, Baylor University 2012
**Dissertation Initiatives for the Advancement of Climate Change Research
 Fellowship** (DISCCRS) 2011
George Gaylord Simpson Prize, Awarded for best paper on evolution and 2011
 the fossil record, Yale Peabody Museum
Summer Sabbatical (competitive application), Baylor University 2011
The Philip M. Orville Prize for outstanding research and scholarship in 2008
 the earth sciences, Yale Graduate School of Arts and Sciences, Yale University
Visiting Research Fellowship, Institute of Rock Magnetism, University of Minnesota 2008
Phi Beta Kappa Honorary Society 2003

RESEARCH GRANT AWARDS

Baylor University, University Research Committee: *Assessing the effects of shade on sycamore ecophysiology*, Project duration: June 1, 2018 – May 21, 2019 (12 months); Amount awarded: \$4499; Sole PI

Baylor University, Faculty Research Investment Program: *Paleoclimate and paleoenvironmental reconstruction of Early Miocene hominoid-bearing fossil assemblages in western Kenya*, Project duration: June 1, 2017 – May 31, 2018 (12 months); Amount awarded: \$23,349; Sole PI

National Science Foundation – Earth Sciences, Sedimentary Geology and Paleobiology (EAR-1325552): *Collaborative Research: testing the link between climate and mammalian faunal dynamics in the early Paleocene record of the San Juan Basin, New Mexico*; Project duration: 9/1/13 – 8/31/18 (60 months); Amount awarded: \$167,419 (BU portion); Co-PI with Stacy Atchley, Lee Nordt (Baylor University), Tom Williamson (New Mexico Museum of Natural History), and Ross Secord (University of Nebraska-Lincoln)

National Science Foundation – Behavioral and Cognitive Sciences, Biological Anthropology (BCS-1241812): *IPG: Collaborative Research: Research on East African Catarrhine and Hominoid Evolution*; Project duration: 9/24/12 – 9/23/18 (72 months); \$152,870 (BU portion); Co-PI with Steven Driese (Baylor University), Kieran McNulty (University of Minnesota), Al Deino (Berkeley Geochronology Center), Laura MacLatchy (University of Michigan), and James Rossie (Stony Brook University)

American Chemical Society – Petroleum Research Fund (PRF 52822-DNI8): *Climate, tectonics and the ecosystem response: exploring the relationship between extrinsic controls and cyclic alluvial stratal accumulations within the Paleocene Nacimiento Formation, San Juan Basin, New Mexico, USA*; Project duration: 1/1/13 – 8/31/17 (56 months); Amount awarded: \$100,000; Sole PI

National Science Foundation – Earth Sciences (EAR-113214): *Early Career: Acquisition of a Nuclear Magnetic Resonance Facility for Earth Science Research at Baylor University*, Project duration: 9/1/12 – 8/31/13 (12 months); Amount awarded: \$92,801; Co-PI with William Hockaday, Steven Driese, Patrick Farmer, and Boris Lau (Baylor University)

The Leakey Foundation: *Paleoenvironment reconstruction of the Early Miocene of Rusinga Island, Kenya*; Project duration: 06/01/2012 – 8/31/2013 (15 months); Amount awarded: \$13,000; Sole PI

Baylor University, Young Investigator Development Program: *Influence of phylogeny and ecology on leaf size and shape: implications for paleoclimatic interpretation*; Project duration: June 1, 2011 – May 31, 2012 (12 months); Amount awarded: \$24,500; Sole PI

National Science Foundation – Behavioral and Cognitive Sciences, Archeology (BCS-1013108): *Collaborative Research: Quaternary Archaeology and Environments of Rusinga and Mfangano Islands Kenya*, Project Duration: 09/01/10 – 08/31/13 (36 months); Amount awarded: \$52,722 (BU portion); Co-PI with: Christian Tryon (New York University) and David Fox (University of Minnesota)

PEER-REVIEWED PUBLICATIONS

* graduate student author, ** undergraduate student author, †advisee

- (59) **Peppe, D.J.**, Evans, D.A., Beech, M., Hill, A., Bibi, F., *in review*, Magnetostratigraphy of the Baynunah Formation. In Bibi, F., Kraatz, B., Beech, M., Hill, A.(Eds.) *Sands of Time: Late Miocene Fossils from the Baynunah Formation, U.A.E.* Springer (Vertebrate Paleobiology and Paleoanthropology Series), Cham, Switzerland.
- (58) Kovarovic, K., Faith, J.T., Jenkins, K. Tryon, C.A., **Peppe, D.J.**, *in review*, An alcelaphin *par excellence*: postcranial ecomorphology of *Rusingoryx atopocranium* (Mammalia, Artiodactyla) from the Late Pleistocene of western Kenya. *Paleobiology*.
- (57) Michel, L.A., Lehmann, T., McNulty, K.P., Driese, S.G., Dunsworth, H., Fox, D.L., Harcourt-Smith, W.E.H., Jenkins, K., **Peppe, D.J.**, *in review*, Sedimentological and paleoenvironmental study from Waregi Hill in the Hiwegi Formation (early Miocene) on Rusinga Island, Lake Victoria, Kenya. *Sedimentology*.
<https://doi.org/10.31233/osf.io/edmsc>
- (56) Allen, S.E., *Lowe, A.J., **Peppe, D.J.**, Meyer, H.W., *in review*, Paleoclimatic and paleoecology of the uppermost Eocene Florissant flora (Central Colorado, USA). *Palaeogeography, Palaeoclimatology, Palaeoecology*.
<https://doi.org/10.31233/osf.io/xpm26>
- (55) †*Wagner, J.D., **Peppe, D.J.**, O'Keefe, J.M., Dennison, C., *in review*, Plant community change across the Paleocene-Eocene boundary in the Gulf Coastal Plain, Central Texas. *Palaeos*. <https://doi.org/10.31233/osf.io/9bce5>.
- (54) *Schlanser, K., Diefendorf, A.F., Greenwood, D.R., Mueller, K.E., West, C.K., *Lowe, A.J., Basinger, J.F., Currano, E.D., †*Flynn, A.G., Fricke, H.C., †**Geng, J., Meyer, H.W., **Peppe, D.J.**, *in revision*, On geologic timescales, $p\text{CO}_2$ and precipitation are important drivers of plant carbon isotope fractionation. *Geochimica et Cosmochimica Acta*.
- (53) †*Baumgartner, A., †**Donahoo, M., Chitwood, D.H., **Peppe, D.J.**, *in revision*, Rapid leaf trait response to growing season meteorology in *Vitis*: implications for leaf physiognomic paleoclimate reconstructions. *American Journal of Botany*.
<http://dx.doi.org/10.1101/706770>.
- (52) †*Flynn, A.G., †*Davis, A.J., Williamson, T.E., Heizler, M., †**Fenley IV, C.W., †*Leslie, C., Secord, R., Brusatte, S.L., **Peppe, D.J.**, *accepted pending revisions*, Early Paleocene Magnetostratigraphy and Revised Biostratigraphy of the Ojo Alamo Sandstone and Lower Nacimiento Formation, San Juan Basin, New Mexico, USA. *Geological Society of America Bulletin*. <https://doi.org/10.31233/osf.io/6mwfy>
- (51) †Beverly, E.J., White, J.D., **Peppe, D.J.**, Faith, J.T., Blegen, N., Tryon, C.A., *in press*, Rapid Pleistocene desiccation and the future of Africa's Lake Victoria. *Earth and Planetary Science Letters*. <https://doi.org/10.1016/j.epsl.2019.115883>
- (50) †*Flynn, A.G., **Peppe, D.J.**, *in press*, Early Paleocene tropical forest from the Ojo Alamo Sandstone, San Juan Basin, New Mexico, USA. *Paleobiology*.
<https://doi.org/10.1017/pab.2019.24>.

- (49) **Peppe, D.J.**, *†Baumgartner, A., *†Flynn A., Blonder, B., 2018, Reconstructing Paleoclimate and paleoecology using fossil leaves. In Croft, D.A., Simpson, S.W. and Su, D.F. (eds.), *Methods in Paleocology: Reconstructing Cenozoic Terrestrial Environments and Ecological Communities*. Springer (Vertebrate Paleobiology and Paleoanthropology Series), Cham, Switzerland: 289-318. https://doi.org/10.1007/978-3-319-94265-0_13 and <https://dx.doi.org/10.17605/OSF.IO/STZUC>.
- (48) Deino, A., and **Peppe, D. J.**, 2018, Geochronology, in Callan, H., ed., *The International Encyclopedia of Anthropology*, Wiley-Blackwell. <https://doi.org/10.1002/9781118924396.wbiea2233>.
- (47) *†Leslie, C.E., **Peppe, D.J.**, Williamson, T.E., Bilardello, D., Heizler, M., Secord, R., **†Leggett, T., 2018, High-resolution magnetostratigraphy of the upper Nacimiento Formation, San Juan Basin, New Mexico, USA: Implications for basin evolution and mammalian turnover. *American Journal of Science* 318: 300-334. <https://dx.doi.org/10.17605/OSF.IO/QXW4N>.
- (46) *†Leslie, C.E., **Peppe, D.J.**, Williamson, T.E., Heizler, M., Jackson, M., Atchley, S.C., Nordt, L., Standhart, B., 2018, Revised age constraints for Late Cretaceous to early Paleocene terrestrial strata from the Dawson Creek section, Big Bend National Park, west Texas. *Geological Society of America Bulletin* 130 (7-8): 1143-1163. <https://doi.org/10.1130/B31785>.
- (45) *Wiest, L.A., *Lukens, W.E., **Peppe, D.J.**, Driese, S.G., Tubbs, J., 2018, Terrestrial evidence for the Lilluput effect across the Cretaceous-Paleogene (K-Pg) boundary, *Palaeogeography, Palaeoclimatology, Palaeoecology* 491: 161-169. <https://doi.org/10.1016/j.palaeo.2017.12.005>.
- (44) Blegen, N., Faith, J.T., *Mant-Melville, A., **Peppe, D.J.**, Tryon, C.A., 2017, The Middle Stone Age after 50,000 years ago: New evidence from the Late Pleistocene sediments of the eastern Lake Victoria Basin, western Kenya. *PaleoAnthropology* 2017: 139-169. doi:10.4207/PA.2017.ART108.
- (43) †Beverly E. J., **Peppe D. J.**, Driese S. G., Blegen N., Faith J. T., Tryon C.A., Stinchcomb G.E., 2017, Reconstruction of Late Pleistocene paleoenvironments using bulk geochemistry of paleosols from the Lake Victoria region. *Frontiers in Earth Science* 5: 93. doi:10.3389/feart.2017.00093.
- (42) *Lukens W. E., Lehmann T., **Peppe D. J.**, Fox D. L., Driese S. G., McNulty K.P., 2017, The Early Miocene critical zone at Karungu, western Kenya: An equatorial, open habitat with few primate remains. *Frontiers in Earth Science* 5: 87. doi:10.3389/feart.2017.00087.
- (41) *Lukens, W. E., Driese, S. G., **Peppe, D. J.**, and **†Loudermilk, M., 2017, Sedimentology, stratigraphy, and paleoclimate at the late Miocene Coffee Ranch fossil site in the Texas Panhandle: *Palaeogeography, Palaeoclimatology, Palaeoecology* 485: 361-376. <https://doi.org/10.1016/j.palaeo.2017.06.026>.
- (40) *Jenkins, K., *Nightingale, S., Faith, J.T., **Peppe, D.J.**, *†Michel, L.A., Driese, S.G., McNulty, K.P., Tryon, C.A., 2017, Evaluating the potential for tactical hunting in the

- Middle Stone Age: Insights from a MSA bonebed of the extinct bovid, *Rusingoryx atopocranium*: *Journal of Human Evolution* 108: 72-91.
<http://dx.doi.org/10.1016/j.jhevol.2016.11.004>.
- (39) *†Davis, A.J. **Peppe, D.J.**, Atchley, S., Williamson, T.E., *†Flynn, A., 2016, Climate and landscape reconstruction of the Arroyo Chijuilita Member of the Nacimiento Formation, San Juan Basin, New Mexico: providing environmental context to early Paleocene mammal evolution: *Palaeogeography, Palaeoclimatology, and Palaeoecology* 463: 27-44. <http://dx.doi.org/10.1016/j.palaeo.2016.09.011>.
- (38) Tryon, C.A, Faith, J.T., **Peppe, D.J.**, *†Beverly, E.J., *Blegen, N., *Blumenthal, S., *Chritz, K., Driese, S.G., *Patterson, D., Sharp, W.D., 2016, The Pleistocene prehistory of the Lake Victoria Basin: *Quaternary International* 404(B): 100-114.
[doi:10.1016/j.quaint.2015.11.073](https://doi.org/10.1016/j.quaint.2015.11.073).
- (37) Faith, J.T., *Patterson, D., *Blegen, N., *O'Neill, C.J., Marean, C.W., **Peppe, D.J.**, Tryon C.A., 2016. Size variation in *Tachyoryx splendens* (East Africa mole-rat) and its implications for late Quaternary temperature change in equatorial East Africa: *Quaternary Science Reviews* 140: 39-48. [doi:10.1016/j.quascirev.2016.03.017](https://doi.org/10.1016/j.quascirev.2016.03.017).
- (36) *O'Brien, H.D., Faith, J.T., Jenkins, K.R., **Peppe, D.J.**, Plummer, T.W., Jacobs, Z.L., Li, B., Joannes-Boyau, R., Price, G., Feng, Y., Tryon, C.A., 2016, Unexpected Convergent Evolution of Nasal Domes Between Pleistocene Bovids and Cretaceous Hadrosaur Dinosaurs: *Current Biology* 26(4): 503-508. [doi:10.1016/j.cub.2015.12.050](https://doi.org/10.1016/j.cub.2015.12.050).
- (35) Geraads, D., Lehmann, T., **Peppe, D.J.**, McNulty, K.P., 2016, New Rhinocerotidae from the Kisingiri localities (Lower Miocene of Western Kenya): *Journal of Vertebrate Paleontology* 36(3): e1103247. [doi: 10.1080/02724634.2016.1103247](https://doi.org/10.1080/02724634.2016.1103247)
- (34) Faith, J.T., Tryon, C.A., **Peppe, D.J.**, 2016, Environmental change, ungulate biogeography, and their implications for early human dispersals in equatorial East Africa, In: Jones, S.C., Stewart, B.A. (Eds.), *Africa from MIS 6-2: Population Dynamics and Paleoenvironments*. Springer: 233-245. [doi:10.1007/978-94-017-7520-5_13](https://doi.org/10.1007/978-94-017-7520-5_13)
- (33) Driese, S.G., **Peppe, D.J.**, *†Beverly, E.J., *DiPietro, L.M., **†Arellano, L.N., Lehmann, T., 2016, Paleosols and paleoenvironments of the early Miocene deposits near Karungu, Lake Victoria, Kenya: *Palaeogeography, Palaeoclimatology, and Palaeoecology*. 443: 167-182. [doi:10.1016/j.palaeo.2015.11.030](https://doi.org/10.1016/j.palaeo.2015.11.030)
- (32) *†Beverly, E.J., Driese, S.G., **Peppe, D.J.**, **†Arellano, L.N., *Blegen, N., Faith, J.T., Tryon, C.A., 2015, Reconstruction of a semi-arid Late Pleistocene paleocatena from the Lake Victoria region, Kenya: *Quaternary Research* 84: 368-381.
[doi:10.1016/j.yqres.2015.08.002](https://doi.org/10.1016/j.yqres.2015.08.002)
- (31) *†Beverly, E.J., Driese, S.G., **Peppe, D.J.**, Johnson, C.R., *†Michel, L.A., Faith, J.T., Tryon, C.A., Sharp, W., 2015, Recurrent spring-fed rivers in a Middle to Late Pleistocene semi-arid grassland: Implications for environments of early humans in the Lake Victoria Basin, Kenya: *Sedimentology* 62(6):1611-1635. [doi: 10.1111/sed.12199](https://doi.org/10.1111/sed.12199)
- (30) *Blegen, N., Tryon, C.A., Faith, J.T., **Peppe, D.J.**, *†Beverly, E.J., Li, B., Jacobs, Z., 2015, Distal tephra of the eastern Lake Victoria basin, Equatorial East Africa:

- Correlations, chronology and a context for early modern humans: *Quaternary Science Reviews* 122: 89-111. doi:10.1016/j.quascirev.2015.04.024
- (29) Faith, J.T., Tryon, C.A., **Peppe, D.J.**, *†Beverly, E.J., *Blegen, N., *Blumenthal, S., *Chritz, K.L., Driese, S.G., *Patterson, D., 2015, Paleoenvironmental context of the Middle Stone Age record from Karungu, Lake Victoria Basin, Kenya, and its implications for human and faunal dispersals in East Africa: *Journal of Human Evolution* 83: 28-45. doi:10.1016/j.jhevol.2015.03.004
- (28) *Garrett, N.D., Fox, D.L., McNulty, K.P. Faith, J.T., Tryon, C.A., **Peppe, D.J.**, *†Van Plantinga, A., 2015, Stable isotopic paleoecology of late Pleistocene Middle Stone Age humans from the Lake Victoria Basin, Kenya: *Journal of Human Evolution* 82: 1-14. doi:10.1016/j.jhevol.2014.10.005
- (27) Brusatte, S. L., Butler, R. J., Barrett, P. M., Carrano, M. T., Evans, D. C., Lloyd, G. T., Mannion, P. D., Norell, M. A., **Peppe, D. J.**, Upchurch, P. and Williamson, T. E., 2015, The extinction of the dinosaurs: *Biological Reviews* 90(2): 628-642. doi: 10.1111/brv.12128
- (26) **Peppe, D.J.** and Hickey, L.J., 2014, Fort Union Formation fossil leaves (Paleocene, Williston Basin, North Dakota, USA) indicate evolutionary relationships between Paleocene and Eocene plant species: *Peabody Museum of Natural History Bulletin* 55(2): 171-189.
- (25) *Donovan, M.P., Wilf, P., Labandeira, C.C., Johnson, K.R., **Peppe, D.J.**, 2014, Novel Insect leaf-mining after the end-Cretaceous extinction and the demise of Cretaceous leaf miners, Great Plains, USA: *PLoS ONE* 9(7): e103542. doi:10.1371/journal.pone.0103542
- (24) *Stinchcomb, G.E. and **Peppe, D.J.**, 2014. The influence of time on the magnetic properties of late Quaternary periglacial and alluvial surface and buried soils along the Delaware River, USA: *Frontiers in Earth Science* 2:17. doi: 10.3389/feart.2014.00017
- (23) Faith, J.T., Tryon, C.A., **Peppe, D.J.**, *†Beverly, E.J., *Blegen, N., 2014, Biogeographic and evolutionary implications of an extinct Late Pleistocene impala from the Lake Victoria Basin, Kenya: *Journal of Mammalogy* 21: 213-222.
- (22) Tryon, C.A., Faith, J.T., **Peppe, D.J.**, Keegan, W.F., Keegan, K.N., *Jenkins, K.H., *Nightingale, S., *Patterson, D., *†Van Plantinga, A., Driese, S., Johnson, C.R., *†Beverly, E., Fox, D.L., 2014, Sites on the landscape: Paleoenvironmental reconstruction of late Pleistocene archaeological sites from the Lake Victoria Basin, Equatorial Africa: *Quaternary International* 331: 20-30.
- (21) *†Michel, L.A., **Peppe, D.J.**, Lutz, J.A., Driese, S.G., Dunsworth, H.M., Harcourt-Smith, W.E.H., **†Horner, W.H., Lehmann, T., *Nightingale, S., McNulty, K.P., 2014, Remnants of an ancient forest provide ecological context for Early Miocene fossil apes: *Nature Communications* 5: 3236.
- (20) **Peppe, D.J.**, *†Lemons, C.R., Royer, D.L., Wing, S.L., Wright, I.J., Lusk, C.H., **Rhoden, C.H., 2014, Biomechanical and leaf-climate relationships: a comparison of ferns and seed plants: *American Journal of Botany*, 101(2): 338-347.

- (19) **†Maxbauer, D.P., **Peppe, D.J.**, Bamford, M., McNulty, K.P., Edwards, L., Harcourt-Smith, W.E.H., 2013, A morphotype catalog and paleoenvironmental interpretations of Early Miocene fossil leaves from the Hiwegi Formation, Rusinga Island, Lake Victoria, Kenya: *Palaeontologia Electronica*, 16(3.28A): 19p.
- (18) **Peppe, D.J.** and Deino, A.L., 2013, Dating rocks and fossils using the geologic record: *Nature Education Knowledge*, 4(10): 1.
(<http://www.nature.com/scitable/knowledge/library/dating-rocks-and-fossils-using-geologic-methods-107924044>)
- (17) Conrad, J.L., *Jenkins, K., Lehmann, T., Manthi, F.K., **Peppe, D.J.**, *Nightingale, S., **Cossette, A., Dunsworth, H.M., Harcourt-Smith, W.E.H., and McNulty, K.P., 2013, New specimens of *Crocodylus pigotti* (Crocodylidae) from Rusinga Island, Kenya, and generic reallocation of the species: *Journal of Vertebrate Paleontology* 33: 629-646.
- (16) Faith, J.T., Tryon, C.A., **Peppe, D.J.**, and Fox, D.L., 2013, The fossil history of Grévy's zebra (*Equus grevyi*) in equatorial East Africa: *Journal of Biogeography* 40: 359-369.
- (15) Danley, P.D., *Husemann, M., *Ding, B., *†DiPietro, L., *†Beverly, E., **Peppe, D.J.**, 2012, The impact of the geologic history and the paleoclimate of the African Great Lakes on the diversification of East African cichlids: *International Journal of Evolutionary Biology* Article ID 574851: 20 pages.
- (14) Royer, D.L., **Peppe, D.J.**, Niinemets, Ü., Wheeler, E.A., 2012, Roles of climate and functional traits in controlling toothed vs. untoothed leaf margins: *American Journal of Botany* 99(5): 915-922.
- (13) Tryon, C.A., **Peppe, D.J.**, Faith, J.T., *†Van Plantinga, A., *Nightingale, S., Ogondo, J., Fox, D.L., 2012, Late Pleistocene artefacts and associated fauna from Rusinga and Mfangano islands, Lake Victoria, Kenya: *Azania: Archaeological Research in Africa* 47: 14-38. doi:10.1080/0067270X.2011.647946.
- (12) **Peppe, D.J.**, Johnson, K.R., Evans, D.A., 2011, Magnetostratigraphy and geochronology of the Lebo and Tongue River Members of the Fort Union Formation (Paleocene) in the northeastern Powder River Basin, Montana: *American Journal of Science* 311 (10): 813-850.
- (11) Faith, J.T., Choiniere, J.N., Tryon, C.A., **Peppe, D.J.**, Fox, D.L., 2011, The taxonomic status and paleoecology of Rusingoryx atopocranium (Mammalia, Artiodactyla), an extinct Pleistocene bovid from Rusinga Island, Kenya: *Quaternary Research* 75: 697-707.
- (10) **Peppe, D.J.**, Royer, D.L., *Cariglino, B., **Oliver, S.Y., **Newman, S., **Leight, E., **Enikolopov, G., *Fernandez-Burgos, M., *Herrera, F., Adams, J.M., *Correa, E., Currano, E.D., Erickson, J.M., Hinojosa, L.F., Hoganson, J.W., Iglesias, A., Jaramillo, C.A., Johnson, K.R., Jordan, G., Kraft, N.J.B., **Lovelock, E.C., Lusk, C.H., Niinemets, Ü., Peñuelas, J. Rapson, G., Wing, S.L., Wright, I.J., 2011, Sensitivity of leaf size and shape to climate: global patterns and paleoclimatic applications: *New Phytologist* 190: 724-739. doi:10.1111/j.1469-8137.2010.03615.x

- (9) **Peppe, D.J.**, 2010, Megafloral change in the early and middle Paleocene in the Williston Basin, North Dakota, USA: *Palaeogeography, Palaeoclimatology, and Palaeoecology* 28 (3-4): 224-234. doi:10.1016/j.palaeo.2010.09.027
- (8) Tryon, C.A., Faith, T.J., **Peppe, D.J.**, Fox, D.L., McNulty, K.P., *Jenkins, K., *Garrett, N., Dunsworth, H.M., Harcourt-Smith, W.E.H., 2010, The Pleistocene archaeology and environments of the Wasiriyia Beds, Rusinga Island, Kenya: *Journal of Human Evolution* 59: 657-671. doi:10.1016/j.hevol.2010.07.020.
- (7) **Peppe, D.J.**, Royer, D.L., Wilf, P., Kowalski, E.A., 2010, Quantification of large uncertainties in fossil leaf paleoaltimetry: *Tectonics* 29: TC3015, doi:10.1029/2009TC002549.
- (6) Royer, D.L., Miller, I.M., **Peppe, D.J.**, Hickey, L.J., 2010, Leaf economic traits support a weedy habitat for early angiosperms: *American Journal of Botany* 97(3): 1-8.
- (5) **Peppe, D.J.**, McNulty, K., Harcourt-Smith, W., Dunsworth, H., Cote, S., 2009, Stratigraphic interpretation of the Kulu Formation (Early Miocene, Rusinga Island, Kenya) and its implication for primate evolution: *Journal of Human Evolution* 56: 447-461.
- (4) **Peppe, D.J.**, Evans, D.A.D., and Smirnov, A.V., 2009, Magnetostratigraphy of the Ludlow Member of the Fort Union Formation (Lower Paleocene) of the Williston Basin in North Dakota: *Geological Society of America Bulletin* 121: 65-79. doi:10.1130/B26353.1
- (3) **Peppe, D.J.**, Hickey, L.J., Miller, I., Green, W., 2008, A morphotype catalogue, floristic analysis and stratigraphic distribution of the Aspen Shale Flora (Cretaceous-Albian) of southwestern Wyoming: *Peabody Museum of Natural History Bulletin* 49(2): 181-208.
- (2) **Peppe, D.J.** and Reiners, P.W., 2007, Conodont (U-Th)/He thermochronology: Initial results, potential, and problems: *Earth and Planetary Science Letters* 258 (3-4): 569-580.
- (1) **Peppe, D.J.**, Erickson, J.M. and Hickey, L.J., 2007, Fossil leaf species from the Fox Hills Formation (Upper Cretaceous: North Dakota, USA) and their paleogeographic significance: *Journal of Paleontology* 81(3): 550-567.

OTHER PUBLICATIONS (editorial review, editorial, thesis)

- (5) **Peppe, D.J.**, Royer, D.L., 2015, Can climate feel the pressure?: *Science*: 348 (6240): 1210-1211. doi: 10.1126/science.aac5264. (Invited Perspectives article)
- (4) Wing, S.L., Johnson, K.R., **Peppe, D.J.**, Green, W.A., Taylor, D.W., 2014, The multi-stranded career of Leo J. Hickey: *Peabody Museum of Natural History Bulletin* 55(2): 69-78.
- (3) **Peppe, D.J.**, 2013, Hot summers in continental interiors: The case against equability during the early Paleogene: *Geology* 41(1): 95-96. doi: 10.1130/focus012013.1. (Invited Research Focus article)

- (2) **Peppe, D.J.**, 2009, A high resolution chronostratigraphic study of the early Paleocene floral record in the northern Great Plains, PhD Dissertation, Yale University, New Haven, CT: 613 p.
- (1) **Peppe, D.J.**, 2003, Fox Hills I, a new upper Maastrichtian megafloral zone within the Williston Basin of North Dakota, B.S. Thesis, St. Lawrence University, Canton, NY: 155 p.

INVITED PRESENTATIONS

<i>Lembersky Conference in Human Evolutionary Studies: Advances in Paleoecology</i> , Rutgers University	2018
<i>Research on East African Catarrhine and Hominoid Evolution workshop</i> , National Museums of Kenya, Nairobi, Kenya	2018
University of Minnesota, Department of Earth Sciences	2017
University of Minnesota, Department of Earth Sciences	2017
<i>What killed the dinosaurs: A fresh look at one of Earth's greatest mysteries</i> , University of California – Berkeley and University of California Museum of Paleontology	2017
<i>Present, and future: Quantitative approaches to conservation and climate change biology in Africa</i> workshop, Integrative Climate Change Biology, Nairobi, Kenya	2017
Midwestern State University, Kimbell School of Geosciences	2016
Kiwanis Club, West, TX	2016
Dallas Paleontological Society	2016
<i>Latest Methods in Reconstructing Cenozoic Terrestrial Environments and Ecological Communities</i> workshop, Cleveland Museum of Natural History	2015
<i>Thursday Night Science</i> lecture series, Mayborn Museum, Baylor University	2015
University of Texas, Jackson School of Geoscience	2014
George Mason University, Department of Atmospheric, Oceanic, and Earth Sciences	2014
University of California – Riverside, Department of Earth Sciences	2014
University of North Texas, Department of Geography	2013
University of Texas – Arlington, Department of Earth and Environmental Science	2011
Texas A&M, Department of Geology and Geophysics	2011
Southern Methodist University, Roy M. Huffington Department of Earth Sciences	2010
Wesleyan University, Department of Earth and Environmental Sciences	2009
University of Minnesota, Institute of Rock Magnetism	2008
Trinity College, Department of Physics	2008
Baylor University, Department of Geology	2008
University of North Dakota, Department of Geology and Geological Engineering	2005

CONFERENCE ABSTRACTS

* graduate student author, ** undergraduate student author, † advisee

2019

Williamson, T.E., †*Flynn, A.G., **Peppe, D.J.**, †*Leslie, C., Heizler, M., Secord, R., Shelley, S.L., Brusatte, S.L., 2019. A revised, high-resolution age model for the Paleocene of the San Juan Basin, New Mexico, USA and repercussions for faunal and floral dynamics during the Dawn of the Age of Mammals. *Society of Vertebrate Paleontology Annual Meeting*.

- †*Baumgartner, A., McNulty, K.P. Michel, L.A., **Peppe, D.J.**, 2019. Paleoclimate and paleoecological reconstructions of the early Miocene Hiwegi Formation, Rusinga Island, Lake Victoria, Kenya. *Geological Society of America, Abstracts with Programs*.
- †*Flynn, A.G., **Peppe, D.J.**, Williamson, T.E., Secord, R., Brusatte S.L., †**Geng, J., 2019. Plant and Mammal Communities from the San Juan Basin (New Mexico, USA) Record Long Term Ecosystem Instability Following the Cretaceous-Paleogene Boundary. *Geological Society of America, Abstracts with Programs*.
- †*Flynn, A.G., **Peppe, D.J.**, †*Davis, A.J., Williamson, T.E., Heizler, M.T., †Leslie, C E., Secord, R., Brusatte S.L., †**Fenley, C.W. IV, 2019. High-Resolution Latest Cretaceous to Early Paleocene Magnetostratigraphy from the San Juan Basin, New Mexico, USA Constrains the Age of Dinosaur and Mammalian Faunas Across the K/Pg boundary. *Geological Society of America, Abstracts with Programs*.
- †*Flynn, A.G., **Peppe, D.J.**, 2019. Early Paleocene Landscape Heterogeneity in Plant Communities from the San Juan Basin, New Mexico, USA: 36th Midcontinent Paleobotanical Colloquium.
- †*Wagner, J., **Peppe, D.J.**, 2019, Floral response to rapid climate change during the early Paleogene in the Gulf Coastal Plain, central Texas. 36th Midcontinent Paleobotanical Colloquium.

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- †*Flynn, A.G., **†Abbuhl, B., **†Geng, J., **Peppe, D.J.**, 2018, Paleoecology and paleoclimate of an early Paleocene tropical forest from the San Juan Basin, New Mexico, USA. *Green Life Symposium*, University of Michigan, Ann Arbor, Michigan.
- †*Milligan, J., †*Flynn, A.G., **Peppe, D.J.**, 2018, Assessing the effects of shade on sycamore ecophysiology: present and past. *Green Life Symposium*, University of Michigan, Ann Arbor, Michigan.
- Peppe, D.J.**, 2018, Reconstructing terrestrial ecosystems using leaf physiognomy and the leaf economic spectrum. *Green Life Symposium*, University of Michigan, Ann Arbor, Michigan.
- †*Wagner, J., **Peppe, D.J.**, 2018, Floral response to rapid climate change during the early Paleogene in the Gulf Coastal Plain, central Texas. *Green Life Symposium*, University of Michigan, Ann Arbor, Michigan.
- †*Baumgartner, A., **†Donahoo, M., **Peppe, D.J.**, 2018, Testing the applicability of leaf physiognomic proxies for climate on equatorial African floras. *European Palaeobotany & Palynology Conference 2018*: O340
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- **Hillis, K.R., Michel, L.A., Fox, D.L., Driese, S.G., **Peppe, D.J.**, Lehman, T., McNulty, K.P., 2018, Paleoclimate reconstruction from pedogenic carbonates from the early Miocene Wayando Formation, Mfangano Island, Lake Victoria, Kenya and the impact on early ape evolution. *American Association of Physical Anthropologists, Conference Program*: 121.
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- **Cheng, K., Michel, L.A., Lehmann, T., McNulty, K.P., Fox, D.L., Driese, S.G., **Peppe, D.J.**, 2017, Stratigraphic analysis and paleosol descriptions from the Early Miocene Kiahera Formation, Rusinga Island, Lake Victoria, Kenya. *Geological Society of America Abstracts with Programs*, 49(6).
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- *†Leslie, C., Secord, R., **Peppe, D.J.**, Williamson, T., Atchley, S., Brusatte, S., Nordt, N., 2017, Terrestrial Evidence for hyperthermals in the lower Paleocene upper Nacimiento Formation, San Juan Basin, New Mexico. *Climate and Biotic Events of the Paleogene: 102*.
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STUDENT ADVISING

(Baylor University unless otherwise noted)

Ph.D.

- Joseph Milligan, degree expected 2021, Thesis topic: "*CO₂ reconstruction of the early Paleocene*"
- Aly Baumgartner, degree expected 2020, Thesis topic: "*Leaf Physiognomy and Climate: an African perspective*"
- Andrew Flynn, degree expected 2020, Thesis topic: "*Early Paleocene floras of the Nacimiento Formation, San Juan Basin, New Mexico*"
- Caitlin Leslie, graduated May 2018, Thesis topic: "*Magnetostratigraphy of the Big Bend National Park, west Texas, and sequence stratigraphy of the Paleocene Nacimiento Formation, San Juan Basin*" (Geologist at Pioneer Natural Resources)
- Emily Beverly, graduated December 2015, "*Reconstruction of Late Pleistocene paleoenvironments of the Lake Victoria region using paleosols and freshwater tufa*" (Assistant Professor at University of Houston)
- Lauren Michel, graduated May 2014, "*Field, micromorphologic and stable isotopic comparative study of modern and ancient soils from Riesel, Texas and Rusinga Island, Kenya*" (Assistant Professor at Tennessee Tech University)

M.S.

- Jennifer Wagner, graduated May 2019, "*Paleogene floras from the Gulf Coastal Plain in Central Texas*"
- Adam Davis, degree expected 2019, Thesis Topic: "*Sedimentology and stratigraphy of the Paleocene Nacimiento Formation, San Juan Basin, New Mexico, USA*"
- Kennedy Oginga, graduated August 2018, "*Geology and paleoenvironments of the early Miocene sites at Koru, Kenya*" (Wellsite Geologist at Columbine Logging, Inc.)

Casee Lemons, graduated May 2012, "*Leaf economics and biomechanics in extant ferns*"
(Director of Geoscience at Sourcewater, Inc.)

Alexander Van Plantinga, graduated December 2011, "*Geology of the Late
Pleistocene Artifact-Bearing Wasiriya Beds at the Nyamita Locality, Rusinga
Island, Kenya*" (Research Scientist at Air Liquide)

Undergraduate B.S. thesis

Jie Geng, graduated August 2019, "*Reconstructing early Paleocene climate and ecology of
fossil floras in the San Juan Basin, New Mexico, USA*"

Michaela Donahoo, graduated May 2018, "*Applying paleobotanical proxies: a case study of
tropical African floras*"

Drew Fatcher, graduated December 2017, "*Magnetostratigraphy of the early Paleocene
Nacimiento Formation at Mesa de Cuba in the San Juan Basin, New Mexico, USA*"

April Jeannie Freeman, graduated May 2017, "*Magnetostratigraphy of the early Miocene Moroto
fossil site, Uganda*"

Brittany Abbuhl, graduated May 2016, "*Early Paleocene fossils floras from the Nacimiento
Formation, San Juan Basin, New Mexico, USA*"

Michael Loudermilk, graduated December 2015, "*Magnetostratigraphy of the late Miocene
Coffee Ranch and Mendota Ranch sections, Ogalalla Formation, northern Texas, USA*"

L. Nicky Arellano, graduated May 2015, "*Using paleosols to reconstruct the paleoclimate of Late
Pleistocene archeological sites in the Lake Victoria Basin, Kenya*"

Curtis Fenley, graduated August 2014, "*Magnetostratigraphy of the early Paleocene Nacimiento
Formation, San Juan Basin, New Mexico, USA*"

Dillon DeGarmo, graduated 2013, "*Magnetostratigraphy of the Paleocene Tongue River
Member of the Fort Union Formation, Williston Basin, USA*"

Mark McCollum, graduated 2013, "*Magnetostratigraphy of the Miocene Hiwegi Formation,
Rusinga Island, Kenya*"

Blake Taylor, graduated 2013, "*Paleoenvironmental reconstruction of Late Pleistocene
deposits in the Lake Victoria region using clay mineralogy*"

William Horner, graduated 2012, "*Assessing heterogeneity of depositional environments using
clay mineralogy and particle size analysis of an early Miocene paleo-forest paleosol, Hiwegi
Formation, Rusinga Island, Kenya*"

Lyndsay DiPietro, graduated 2011, "*Paleoclimate Interpretation Using Clay Mineralogy for Early
Miocene Fossil Localities of the Hiwegi Formation on Rusinga Island, Lake Victoria, Kenya*"

Committee Member

Nicole Price, MS

Zequn Wu, PhD

Zhao Wang, PhD

Tori Tew, MS

Will Matthaeus, PhD (Biology)

Yohan Letourmay, PhD

Don Esker, PhD, graduate December 2019

Kasey Bolles, PhD, graduate December 2018

Lyndsay DiPietro, PhD, graduate December 2018

Logan Wiest, PhD, graduate August 2018

Bill Lukens, PhD, graduated December 2017
Todd Longbottom, PhD, graduated August 2017
Christopher Skrodzki, MS, graduated May 2017
Deb Jennings, PhD, graduated May 2014
Martin Husemann, PhD, graduated August 2013
Steve Ahr, PhD, graduated December 2012
Aislyn Trendell, PhD, graduated December 2012
Gary Stinchcomb, PhD, graduated August 2012
Jason Mintz, PhD, graduated May 2011
Daniel Maxbauer, BS, St. Johns University, graduated 2011
Sofia Oliver, BS, Wesleyan University, graduated 2009

Undergraduate and High School Research

Jessie Barnett, 2011, High School Student Summer Research Program, Baylor University
Alexandra Andrews, 2009, undergraduate research project, Yale University

COURSES TAUGHT (enrollment)

Fall 2019

Geology 1107, *Evolution and Extinction* (13)

This course emphasizes what the fossil records tells us about evolutionary processes, major extinction events in Earth history, the relationship between the Earth's changing climates and environments and evolution, and the implications of future climate change for life on Earth.

Spring 2019

Geology 5V90, *Advanced Topics in Geochronology* (4)

A survey of geochronologic methods used to generate absolute and relative dates in geological, paleontological, and archeological contexts.

Geology 5314, *Advanced Topics in Paleoclimatology: Climate Change, Past, Present, and Future* (5)

Survey of some of the important changes in the earth's climate through the discussion primary literature and the proxies and models used to determine and interpret the causes and effects of these changes.

Fall 2018

Geology 4331, *Evolutionary History of Plants* (4)

A survey of fossil plants from the Precambrian to the present and review of methods and techniques used for in paleoclimatology and paleoecology (lecture and lab)

Spring 2018

Geology 3442, *Field Studies in Stratigraphy and Sedimentology* (18)

A study of sediments and sedimentary rocks and the interpretation of geologic history based on outcrop investigation (lecture and lab)

Fall 2017

Geology 5389, *Earth System Science* (6)

An assessment of the Earth's four systems (atmosphere, hydrosphere, biosphere, and solid Earth), the internal and external forcing factors that influence them, and how they affect the Earth's climate both independently and by interacting together.

Geology 5338, *Advanced Studies in Paleontology: Fossil floras* (2)

A survey of methods used to describe, classify, and identify fossil floras based on their leaf architecture.

Spring 2017

Geology 5314, *Advanced Topics in Paleoclimatology: Paleoclimate Proxies* (6)

An examination of terrestrial and marine proxies used to reconstruct paleoenvironment and paleoclimate through Earth history

Fall 2016

Geology 4331, *Evolutionary History of Plants* (8)

A survey of fossil plants from the Precambrian to the present and review of methods and techniques used for in paleoclimatology and paleoecology (lecture and lab)

Spring 2016

Geology 3442, *Field Studies in Stratigraphy and Sedimentology* (19)

A study of sediments and sedimentary rocks and the interpretation of geologic history based on outcrop investigation (lecture and lab)

Spring 2015

Geology 5V90, *Advanced Topics in Geochronology* (3)

A survey of geochronologic methods used to generate absolute and relative dates in geological, paleontological, and archeological contexts.

Geology 43C1, *Senior Colloquium Capstone* (6)

Capstone course emphasizing integration of all the major core course in the geology, geophysics, and earth science majors

Fall 2014

Geology 5389, *Earth System Science* (8)

An assessment of the Earth's four systems (atmosphere, hydrosphere, biosphere, and solid Earth), the internal and external forcing factors that influence them, and how they affect the Earth's climate both independently and by interacting together.

Spring 2014

Geology 3342, *Field Studies in Stratigraphy and Sedimentology* (17)

A study of sediments and sedimentary rocks and the interpretation of geologic history based on outcrop investigation (lecture and lab)

Geology 4331, *Evolutionary History of Plants* (6)

A survey of fossil plants from the Precambrian to the present and review of methods and techniques used for in paleoclimatology and paleoecology (lecture and lab)

Fall 2013

Geology 5314, *Advanced Topics in Paleoclimatology: Climate Change, Past, Present, and Future* (6)

Survey of some of the important changes in the earth's climate through the discussion primary literature and the proxies and models used to determine and interpret the causes and effects of these changes.

Fall 2012

Geology 5314, *Advanced Topics in Paleoclimatology: Paleoclimate Proxies* (5)
An examination of terrestrial and marine proxies used to reconstruct paleoenvironment and paleoclimate through Earth history

Spring 2012

Geology 3342, *Field Studies in Stratigraphy and Sedimentology* (15)
A study of sediments and sedimentary rocks and the interpretation of geologic history based on outcrop investigation

Fall 2011

Geology 5338, *Advanced Studies in Paleontology: Paleobotany* (2)
A survey of fossil plants from the Precambrian to the present and review of methods and techniques used for in paleoclimatology and paleoecology

Geology 5V90, *Paleoecology and Biodiversity of East African Lakes from the Pliocene to the Present* (4)

An examination of the paleoclimate record of the East African great lakes and the influence of environmental change on the evolution and biodiversity of cichlids

Spring 2011

Geology 5V90, *Techniques in Paleomagnetism* (2)
A survey of methodologies and techniques used in paleomagnetism. The course was a directed study, discussion-based classes focused on topics that related to the graduate students backgrounds and interests.

Fall 2010

Geology 5338, *Advanced Studies in Paleontology: Paleobotany* (4)
A survey of fossil plants from the Precambrian to the present and review of methods and techniques used for in paleoclimatology and paleoecology.

Geology 5V90, *Climate Change: Past, Present, and Future* (7)

A detailed examination of climate change from the Precambrian to the present through discussions based on primary literature.

Spring 2010

Geology 1405, *The Dynamic Earth* (27)
A survey of physical geology, the processes that have shaped the earth, plate tectonics, and the dynamics of the earth's interior.

Fall 2009

Geology 5V90, *Climate Change: Past, Present, and Future* (4)
A detailed examination of several of the important climate change events that occur through the Cenozoic (65 Ma – present).

PROFESSIONAL SERVICE

Peer review

<i>Associate Editor</i> , Palaios	2018 – Present
<i>Academic Editor</i> , PLOS One	2018 – Present
<i>Review Editor</i> , Frontiers in Earth Sciences	2013 – Present
<i>Recommender</i> , PCI Paleo	2018 – Present
<i>Steering Committee</i> , paleorXiv (https://paleorxiv.github.io)	2017 – Present

Guest Academic Editor, PLOS One

2017 – 2018

Manuscript Reviews

Acta Oecologica
American Journal of Botany
Annals of Botany
Basic and Applied Ecology
Canadian Journal of Earth Science
Chemical Geology
Comptus rendus Palevol
Cretaceous Research
Earth and Planetary Science Letters
Frontiers in Earth Sciences
Frontiers in Plant Sciences
Geology
Geological Society of America Bulletin
Geological Society of America Special Publications
Global Ecology and Biogeography
Grana
International Journal of Plant Sciences
Journal of Biogeography
Journal of Human Evolution
Journal of Paleontology
New Phytologist
Nordic Journal of Botany
Proceedings of the National Academy of Science
Palaios
Palaeogeography, Palaeoclimatology, and Palaeoecology
Paleobiology
Paleoceanography
Paleontologia Electronica
Palaeobiodiversity and Palaeoenvironments
Peabody Museum of Natural History Bulletin
PLOS One
Proceedings of the Royal Society B
Quaternary Research
Rocky Mountain Geology
Science

Proposal and Fellowship Reviews

ACS Petroleum Research Fund
Dissertations Initiative for the Advancement of Climate Change Research Symposiums (DISCCRS)
L'Agence national de la recherche (French National Research Agency)
Leakey Foundation
National Geographic Society
New Generation of Polar Researchers Leadership Symposium (NGPR)
National Science Foundation (Antarctic Earth Science, Biological Anthropology, Graduate Research Fellowship Program, Instrumentation and Facilities, Paleo Perspectives on Climate Change, Sedimentary Geology and Paleobiology, Tectonics)
Netherlands Organization for Scientific Research - Council for Earth and Life Sciences

Panelist

National Science Foundation (2014, 2015, 2016)

Conference Service

Fieldtrip co-leader, Society of Vertebrate Paleontology, 2018, “A Traverse Across the K-Pg Boundary of the San Juan Basin, New Mexico”

Session co-convenor, Geological Society of America Meeting, 2016, “Timing, drivers, and marine and terrestrial ecosystem response to the Cretaceous-Paleogene extinction event”

Session co-convenor, Geological Society of America Meeting, 2012, “Fossil plants as paleoenvironmental recorders”

Judge, Outstanding Student Presentation Awards, AGU Fall Meeting 2011

Session co-convenor, American Geophysical Union Fall Meeting, 2011, “Tectonics, erosion and paleoclimate: Insights from geochemistry, paleobiology, geochronology, and modeling”

Session co-convenor, Geological Society of American Annual Meeting, 2011, “Paleoclimate, terrestrial ecosystems, and human evolution in Africa from the Pleistocene to the Present”, 2011

Organizing Committee, SEPM-NSF Workshop, 2010, “Paleosols and soil surface analog systems”

Session Chair, Geological Society of America Annual Meeting, 2005, “At the interface of paleontology and geology, Paleontological Society”

Society Service

Strimple Award Committee, The Paleontological Society, 2016 – 2019

Nominations Committee, The Paleontological Society, 2012 – 2016

Scientific Outreach

Organizer and Exhibitor, Earth Science Week Sic ‘Em Science Day at the Mayborn Museum. Designed multiple hands on activities on geology, mapping, fossil leaves and paleoclimate for general public participation

Interview and segment, Central Texas Living, KXXV, interview about getting young people interested in science and outreach work at Mayborn Museum:
<https://www.facebook.com/annharderkxxv/videos/1698160350228591/>

Organizer, Coordinator, and Panel Moderator, Earth Science Symposium – Climate change: Earth’s past, present, and future.

Press release about event:

<https://www.baylor.edu/mediacommunications/news.php?action=story&story=187227>

Facebook Live video of panel discussion:

<https://www.facebook.com/MaybornMuseumComplex/videos/1462457880475180/>

Organizer and Coordinator, Earth Science Week activities, Mayborn Museum:

<http://baylorlariat.com/2017/10/10/mayborn-hosts-earth-science-week-celebration/>

Interview with KWBU about Earth Science week events: <http://kwbu.org/post/mayborn-museum-hosting-earth-science-week#stream/0>

Video recap of fossil, rock, and mineral identification event.

<https://www.facebook.com/baylorgeosciences/videos/849686588545525/>

Exhibitor, Sic ‘Em Science Day at the Mayborn Museum.

Designed multiple hands on activities on fossil leaves and paleoclimate for general public participation

Guest blogger, Plant Science Today, How I Work series: <http://blog.aspb.org/2016/04/13/implant-scientist-dan-peppe-and-this-is-how-i-work/>

Guest blogger, Rock-Head Sciences, A Day in the Life Series:

<http://rockheadsciences.com/peppe-paleoclimatology/>
Presenter, The Academic Minute, WAMC Northeast Public Radio and Inside Higher Ed:
<http://wamc.org/post/dr-dan-peppe-baylor-university-proconsul-fossils>
Interview and segment, KWBU National Public Radio, "Scientists: Asteroid caught the dinosaurs at a bad time": <http://kwbu.org/post/scientists-asteroid-caught-dinosaurs-bad-time>
Interview and segment, KWBU National Public Radio, "Habitats of early apes":
<http://edge.baylor.edu/media/219352/219352-audio.mp3>
Scientific consultant, National Geographic Channel, "T. Rex Autopsy":
<http://channel.nationalgeographic.com/t-rex-autopsy/>
Scientific consultant, BBC Earth, Walking With Dinosaurs website
Contributing author, BBC Earth, Walking With Dinosaurs, WWD Features, "K-T extinction: the plants that followed dinosaurs into extinction"
Guest blogger, EGU Blogs, "What do we know about the origin of flowering plants?":
<http://blogs.egu.eu/palaeoblog/2013/10/15/what-do-we-know-about-the-origin-of-flowering-plants/>
Scientific consultant, American Museum of Natural History Science Bulletins, Expedition Rusinga: Uncovering our Adaptive Origins: [www.amnh.org/explore/science-bulletins/\(watch\)/human/documentaries/expedition-rusinga-uncovering-our-adaptive-origins](http://www.amnh.org/explore/science-bulletins/(watch)/human/documentaries/expedition-rusinga-uncovering-our-adaptive-origins)

University Academic Service (Baylor University)

<i>Search Committee Member</i> , Mayborn Museum, Portal to the Public coordinator	2018
<i>Search Committee Chair</i> , Department of Geosciences, Assistant Professor of Paleobiology search	2017-2018
<i>Summer Faculty Institute, Guest Facilitator</i> , Academy for Teaching and Learning	2016
<i>Search Committee Chair</i> , Department of Geology, Computer and Instrumentation Specialist	2014-2015
<i>Geology leader</i> , Code Red Event, Baylor University's "Invitation to Excellence"	2013
<i>Search Committee Member</i> , Department of Geology, Professor of Paleoclimatology search	2012 – 2013
<i>Committee Member</i> , Faculty Focus Group on Teaching Effectiveness	2012
<i>Member</i> , Phi Beta Kappa Society	2009 – Present
<i>Mentor</i> , Baylor University, High School Student Summer Research Program (HSSSRP)	2011
<i>Committee Member</i> , Department of Geology, Robert Foster Cherry Award For Great Teaching	2011
<i>Search Committee Member</i> , Department of Geology, Assistant/Associate Professor of Geochemistry/Paleoclimatology search	2009 – 2010
<i>Table Host</i> , Baylor University "Invitation to Excellence"	2009

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science, American Association of Physical Anthropologists; American Geophysical Union; Geological Society of America; International Organization of Paleobotany; National Association of Geoscience Teachers, Paleontological Society; Society of Vertebrate Paleontology