

DANIEL J. PEPPE

Baylor University, Department of Geosciences,
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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

(50) †Flynn, A., G., **Peppe, D.J.**, *in revision*, Diverse early Paleocene megafloora from the Ojo Alamo Sandstone, San Juan Basin, New Mexico, USA. *Paleobiology*.
<https://dx.doi.org/10.17605/OSF.IO/RMZ87>.

- (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

2018

- **†Geng, J., *†Flynn, A., **Peppe, D.J.**, 2018. Paleoclimate reconstruction and the pattern of climate change of the early Paleocene from leaf physiognomy in the San Juan Basin, New Mexico following the Cretaceous-Paleogene boundary. *Geological Society of America Abstracts with Programs*, 50(6): 96-79. doi: 10.1130/abs/2018AM-322923

- *†Wagner, J.D., **Peppe, D.J.**, 2018. Plant community change across the Paleocene-Eocene boundary in the Gulf Coastal Plain, Central Texas. *Geological Society of America Abstracts with Programs*, 50(6): 259-211. doi: 10.1130/abs/2018AM-324520
- *†Baumgartner, A., **†Donahoo, M., **Peppe, D.J.**, 2018. Assessing the relationship between leaf size and shape in African floras: Implications for paleoclimate proxies. *Green Life Symposium*, University of Michigan, Ann Arbor, Michigan.
- *†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
- *†Flynn, A. G., **Peppe, D. J.**, **†Abbuhl, B., 2018. Rapid Floral Change in Diverse Early Paleocene Tropical Forest from the San Juan Basin, New Mexico, USA. *European Palaeobotany and Palynology Conference 2018*: O014.
- *†Milligan, J., *†Flynn, A.G., **Peppe, D.J.**, Barclay, R., 2018, A multi proxy atmospheric CO2 reconstruct of the Early Paleocene from the San Juan Basin, New Mexico, USA. *European Palaeobotany and Palynology Conference 2018*: O016.
- **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.
- Lukens, W.E., Lehmann, T., **Peppe, D.J.**, Fox, D.L., Driese, S.G., Kinyanjui, R., Kingston, J.D., McNulty, K.P., 2018, Open-canopy habitats at Karungu, Kenya: an early Miocene fossil site with few primate remains. *American Association of Physical Anthropologists, Conference Program*: 162.
- Michel, L.A., **Cheng, K., **Chan, R.L., **Bowen, A.F., Fox, D.L., Lehmann, T., **Peppe, D.J.**, McNulty, K.P., 2018, Evidence for seasonality from the Kiahera Formation from the Early Miocene deposits of Rusinga Island, Kenya. *American Association of Physical Anthropologists, Conference Program*: 177.
- Pearson, O.M., Hill, E.C., **Peppe, D.J.**, Faith, J.T., Tryon, C.A., 2018, A hominin humerus from the late Middle Stone Age of Rusinga Island, Lake Victoria, Kenya. *American Association of Physical Anthropologists, Conference Program*: 202.
- Peppe, D.J.**, Cote, S., Deino, A., Driese, S.G., Fox, D.L., Kingston, J., Kinyanjui, R. Kityo, R.M., Lehmann, T., Lukens, W.W., Jenkins, K., MacLatchy, L.W., Manthi, F.K., Mbua, E., McNulty, K.P., Michel, L.A., Miller, E.R., Mugume, A.A., Nengo, I., Novello, A., *†Oginga, K.O., Rossie, J.B., 2018, Adaptable apes: reconstructing habitats through space and time in the early Miocene of East Africa. *American Association of Physical Anthropologists, Conference Program*: 204.

- *†Baumgartner, A., **†Donahoo, M., and **Peppe, D.**, 2018. Assessing the relationship between leaf size and shape in African floras. *Ecological Integration Symposium*, Texas A&M University, College Station, Texas.

2017

- *†Flynn, A., **Peppe, D.J.**, 2017, Diverse early Paleocene fossil floras from the San Juan Basin (New Mexico, USA) linked to warm and wet climate. *EOS Transactions American Geophysical Union*: PP23B-1306.
- Allen, S.E., *Lowe, A.J., **Peppe, D.J.**, Meyer, H.W., 2017, Paleoclimate and paleoecology of the late Eocene Florissant flora using digital leaf physiognomy. *Geological Society of America Abstracts with Programs*, 49(6): doi: 10.1130/abs/2017AM-305823.
- **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 Kiahhera Formation, Rusinga Island, Lake Victoria, Kenya. *Geological Society of America Abstracts with Programs*, 49(6).
- **†Donahoo, M.A., *†Baumgartner, K.A., **Peppe, D.J.**, 2017, Applying paleobotanical proxies: a case study of tropical African floras. *Geological Society of America Abstracts with Programs*, 49(6): doi: 10.1130/abs/2017AM-306397.
- Driese, S.G., **Peppe, D.J.**, Kingston, J.D., Fox, D.L., *Lukens, W.E., Deino, A., MacLatchy, L.M., 2017, Paleopedology and paleoclimate significant of early Miocene fluvio-lacustrine paleosols from Moroto II site in Uganda, *Geological Society of America Abstracts with Programs*, 49(6): doi: 10.1130/abs/2017AM-294709
- Kiyanjui, R.N., **Peppe, D.J.**, MacLatchy, L.M., Kingston, J.D., Cote, S., Driese, S.G., Fox, D.L., Jacobs, B.F., Lehmann, T., *Lukens, W.E., Rossie, J.B., McNulty, K.P., 2017, Early Miocene vegetation across eastern Africa as reconstructed from phytolith data. *Geological Society of America Abstracts with Programs*, 49(6): doi: 10.1130/abs/2017AM-302390.
- Michel, L.A., **Cheng, K., Lehman, T., McNulty, K.P., Driese, S.G., Fox, D.L., **Peppe, D.J.**, 2017, Paleoclimatic variability and the role of seasonality from the Early Miocene deposits on Rusinga and Mfangano Islands, Lake Victoria, Kenya. *Geological Society of America Abstracts with Programs*, 49(6): doi: 10.1130/abs/2017AM-307447.
- *†Oginga, K.O., **Peppe, D.J.**, *Lukens, W.E., Lutz, J.A., Michel, L.A., 2017, Paleoclimate and paleoenvironmental reconstruction of the Early Miocene Tinderet sites in western Kenya and their implications for hominoid evolution. *Geological Society of America Abstracts with Programs*, 49(6): doi: 10.1130/abs/2017AM-306178.
- Peppe, D.J.**, Deino, A.L., Driese, S.G., Fox, D.L., Kingston, J.D., Kinyanjui, R.N., *Lukens, W.E., Lutz, J.A., Michel, L.A., *†Oginga, K.O., Cote, S., Lehmann, T., MacLatchy, L.M., McNulty, K.P., Miller, E., Nengo, I., Rossie, J.B., 2017. Early Miocene paleoclimate and paleoenvironments across East Africa. *Geological Society of America Abstracts with Programs*, 49(6): 39-5. doi: 10.1130/abs/2017AM-304937
- *Mant-Mellville, A., Blegen, N., Faith, J.T., Jenkins, K., Tryon, C.A., **Peppe, D.J.**, 2017, Late Middle Stone Age lithic technology in eastern Lake Victoria, Kenya. *European Society for the study of Human Evolution*.
- *†Flynn, A., **Peppe, D.J.**, Abbuhl, B., Williamson, T.E., 2017. Diverse early Paleocene fossils flora from the San Juan Basin (New Mexico, USA) documents rapid recovery following the Cretaceous-Paleogene boundary. *Climatic and Biotic Events of the Paleogene*: 24
- *†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.

- *†Milligan, J., Royer, D., Franks, P., Upchurch, G., *†Flynn, A., **Peppe, D.J.**, 2017, Revised estimates of atmospheric CO₂ across the Cretaceous-Paleogene (K-Pg) boundary. *Climate and Biotic Events of the Paleogene*: 134.
- Peppe, D.J.**, Royer, D.L., *†Flynn, A., *†Milligan, J. 2017. The relationship between terrestrial climate and CO₂ through the early Paleogene and its implications for Earth-system sensitivity. *Climatic and Biotic Events of the Paleogene*: 84
- Secord, R., *†Leslie, C., Williamson, T., **Peppe, D.J.**, Brusatte, S., 2017, Recognition of carbon isotope excursions in the lower Paleocene terrestrial record of the San Juan Basin, New Mexico, USA. *Climate and Biotic Events of the Paleogene*: 100.
- *†Leslie, C., **Peppe, D.J.**, Williamson, T.E., Heizler, M., Jackson, M., Atchley, S.C., Nordt, L., Standhardt, B., 2017, Revised age constraints for Late Cretaceous to early Paleocene strata from the Dawson Creek section, Big Bend National Park, west Texas. *10th International Symposium on the Cretaceous Meeting Abstracts*: 157.
- *†Flynn, A., **Peppe, D.J.**. 2017. Early Paleocene tropical forests from the San Juan Basin, New Mexico, USA. *Midcontinent Paleobotany Colloquium*.
- *Lukens, W.E., **Peppe, D.J.**, Locke, E., Miller, E., Deino, A., *†Oginga, K.O., and Nengo, I., 2017, Paleoenvironments and mammalian fauna from the early Miocene fossil site at Buluk, Kenya. *American Association of Physical Anthropologists, Conference Program*: 268.
- *†Oginga, K.O., **Peppe, D.J.**, *Lukens, W.E., and Lutz, J., 2017, Paleoclimate and paleoenvironmental reconstruction of the early Miocene fossil site Koru 16 (Nyanza Province, Western Kenya) and its implications for hominoid evolution. *American Association of Physical Anthropologists, Conference Program*: 303.
- Michel, L.A., Lehmann, T., Novello, A., Driese, S.G., Fox, D.L., Garrett, N.D., **Peppe, D.J.**, 2017, Revisiting the Early Micoene paleoenvironments of Rusinga Island, Lake Victoria, Kenya based on paleosols and paleontological analyses. *American Association of Physical Anthropologists, Conference Program*: 287.
- *Muteti, S., Lehmann, T., Michel, L.A., Cote, S., **Peppe, D.J.**, *Jansma, R., McNulty, K., 2017, Yet another new cranium from the early Miocene: the most complete male cranial remains of the fossil ape *Ekembo*. *American Association of Physical Anthropologists, Conference Program*: 295.
- Peppe, D.J.**, Deino, A.L., McNulty, K.P., McCollum, M.S., Mitchell, A.L., Driese, S.G., Dunsworth, H.M., Fox, D.L., Harcourt-Smith, W.E., Jenkins, K., Lehmann, T., Michel, L.A., 2017. Revised geochronology of the Early Miocene faunas from Rusinga Island and Mfangano Island (Lake Victoria, Kenya): Implications for Miocene hominoid evolution and faunal succession. *American Association of Physical Anthropologists, Conference Program*: 313

2016

- Secord, R., *†Leslie, C.E., Williamson, T.E., **Peppe, D.J.**, Brusatte, S., 2016, First recognition of climate hyperthermals in the lower Paleocene record of the San Juan Basin, New Mexico, USA: *Journal of Vertebrate Paleontology, Program and Abstracts, 2016*: 222
- Williamson, T.E., Secord, R., Brusatte, S., *Shelly, S.L., *†Leslie, C.E., **Peppe, D.J.**, 2016, A high resolution record of Early Paleocene faunal dynamics in the San Juan Basin, New Mexico. *Journal of Vertebrate Paleontology, Program and Abstracts, 2016*: 252.
- *†Davis, A., **Peppe, D.J.**, Williamson, T.E., Atchley, S., 2016, Sedimentologic and stratigraphic reconstruction of lower Paleocene environments in the San Juan Basin, New Mexico: *Geological Society of America Abstracts with Programs* 48(7): doi: 10.1130/abs/2016AM-282991
- Dworkin, S.I., **Evans, Z., *†Flynn, A., **Peppe, D.J.**, 2016, Early Paleocene environmental reconstruction using the isotopic concentration of leaf compressions from the San Juan

- Basin: *Geological Society of America Abstracts with Programs* 48(7): doi: 10.1130/abs/2016AM-285554
- *†Flynn, A., **Peppe, D.J.**, **†Abbuhi, B., Williamson, T.E., 2016, Early Paleocene plant communities from the lower Nacimiento Formation (San Juan Basin, New Mexico, USA) document relatively long-term ecosystem instability following the Cretaceous-Paleogene extinction event: *Geological Society of America Abstracts with Programs* 48(7): doi: 10.1130/abs/2016AM-284618
- **†Leggett, T.N., Leslie, C.E., **Peppe, D.J.**, Williamson, T.E., 2016, Magnetostratigraphy of the lower Paleocene Nacimiento Formation, Kutz Canyon, San Juan Basin, New Mexico: *Geological Society of America Abstracts with Programs* 48(7): doi: 10.1130/abs/2016AM-287004
- *†Leslie, C.E., Secord, R., **Peppe, D.J.**, Atchley, S., Williamson, T.E., Nordt, L.C., Brusatte, S., 2016, Climatic and depositional history of the lower Paleocene upper Nacimiento Formation, San Juan Basin, New Mexico: *Geological Society of America Abstracts with Programs* 48(7): doi: 10.1130/abs/2016AM-287214
- *Lukens, W.E., Lehmann, T., Fox D.L., Deino, A., Kingston, J.D., **Peppe, D.J.**, Driese, S.G., 2016, Early Miocene paleoenvironments near Karungu, western Kenya: *Geological Society of America Abstracts with Programs* 48(7): doi: 10.1130/abs/2016AM-278252
- Peppe, D.J.**, McNulty, K.P., Deino, A.L., †Michel, L.A., **†McCollum, M.S., Driese, S.G., Dunsworth, H.M., Harcourt-Smith, W.E., *Jenkins, K.E., Lehmann, T., 2016, Early Miocene paleoenvironments of the Hiwegi Formation on Rusinga Island (equatorial Africa, Lake Victoria, Kenya) and their implications for hominoid evolution: *Geological Society of America Abstracts with Programs* 48(7): doi: 10.1130/abs/2016AM-280981.
- Secord, R., *†Leslie, C.E., Williamson, T.E., **Peppe, D.J.**, Brusatte, S., 2016, First recognition of climate hyperthermals in the lower Paleocene record of the San Juan Basin, New Mexico, USA: *Geological Society of America Abstracts with Programs* 48(7): doi: 10.1130/abs/2016AM-278979.
- Stinchcomb, G.E., Levin, N.E., **Peppe, D.J.**, *DiPietro, L., Roger, M.J., Semaw, S., 2016, A comparison of paleosols from Oldowan and Acheulian sites at Gona, Ethiopia, *Geological Society of America Abstracts with Programs* 48(7): doi: 10.1130/abs/2016AM-278719
- *†Baumgartner, A., **Peppe, D. J.**, Chitwood, D. H., and **†Donahoo, M. 2016, Rapid leaf character response to climate variability in *Vitis*: Implications for leaf physiognomic paleoclimate reconstructions. XIV International Palynology Congress/X International Organization of Paleobotany Conference, Salvador, Brazil.
- *†Flynn, A.G., **Peppe, D. J.**, **†Abbuhi, B., and Williamson, T. 2016: Paleoclimate and Paleoecology of Diverse Early Paleocene Fossil Flora from the San Juan Basin, New Mexico, USA. XIV International Palynology Congress/X International Organization of Paleobotany Conference, Salvador, Brazil.
- *†Beverly, E.J., Snell, K., **Peppe, D.J.**, **Driese, S.G.**, Faith, J.T., Tryon, C.A., 2016, Reconstruction of Late Pleistocene paleoenvironments using stable and clumped isotopes from the Lake Victoria Region, *American Journal of Physical Anthropology* 159: 94.
- *O'Brien, H. D., Faith, J. T., *Jenkins, K., **Peppe, D. J.** and Tryon, C. A., 2016. How to grow a trumpet: Ontogeny elucidates hollow nasal crest evolution in dinosaurs and mammals: *Integrative and Comparative Biology* 56: E163.

2015

- Sharp, W.D., Flystra, N. Tryon, C.A., Faith, J.T., **Peppe, D.J.**, 2015. U-Th burial dates on ostrich eggshell: *EOS Transactions American Geophysical Union*: PP11A-2195.

- **†Abbuhl, B., **Peppe, D.J.**, *†Flynn, A., 2015. Lateral floral variability in the early Paleocene Nacimiento Formation, San Juan Basin, NM: *Geological Society of America Abstracts with Programs* 47(7): 533.
- *†Beverly, E.J., White, J.D., **Peppe, D.J.**, Faith, J.T., *Blegen, N., Tryon, C.A., 2015. Lake Victoria megadrought and equatorial grassland expansion during the Late Pleistocene: *Geological Society of America Abstracts with Programs* 47(7): 285.
- *†Davis, A.J., Atchley, S., **Peppe, D.J.**, *†Flynn, A., Williamson, T.E., 2015. Giving context to early Paleocene mammal evolution: climate and landscape reconstruction of the Arroyo Chijuillita Member of the Nacimiento Formation, San Juan Basin, New Mexico: *Geological Society of America Abstracts with Programs* 47(7): 588.
- Faith, J.T., *Patterson, D., *Blegen, N., O'Neill, C.J., Marean, C.W., **Peppe, D.J.**, Tryon, C.A., 2015. Size variation of East African mole-rat (*Tachyoryctes splendens*) and its implications for late Quaternary climate change: *Geological Society of America Abstracts with Programs* 47(7): 284.
- *†Flynn, A., **Peppe, D.J.**, **†Abbuhl, B., Williamson, T.E., 2015. Diverse early Paleocene fossil flora from the Ojo Alamo Sandstone, San Juan Basin, New Mexico, USA: implications for local and regional responses to the Cretaceous-Paleogene extinction event: *Geological Society of America Abstracts with Programs* 47(7): 207.
- *†Leslie, C.A., Atchley, S., **Peppe, D.J.**, Nordt, L.C., Williamson, T.E., Secord, R., 2015. Sedimentologic and stratigraphic indicators of regional paleogeography within the lower Paleocene Nacimiento Formation, San Juan Basin, New Mexico, USA: *Geological Society of America Abstracts with Programs* 47(7): 798.
- †Michel, L.A., Tabor, N.J., Myers, T.S., Driese, S.G., **Peppe, D.J.**, 2015. Comparative study of precipitation proxies from modern North American soils and paleosols from Rusinga and Mfangano Islands, Lake Victoria, Kenya: *Geological Society of America Abstracts with Programs* 47(7): 666.
- Peppe, D.J.**, McNulty, K.P., MacLatchy, L., Rossie, J., Lehmann, T., Deino, A., Kingston, J., Fox, D., Jenkins, K., *Lukens, W., Driese, S.G., 2015. Research on East African Catarrhine and Hominoid Evolution (REACHE): a regional approach to understanding early Miocene paleobiology and pleoenvironments: *Geological Society of America Abstracts with Programs* 47(7): 286.
- *Garrett, N.D., Fox, D.L., McNulty, K.P., *†Michel, L. **Peppe, D.J.**, 2015. Early Miocene paleoenvironments of Rusinga Island, Kenya: New data from fossil mammalian tooth enamel stable isotope compositions: *Journal of Vertebrate Paleontology, Program and Abstracts, 2015*: 130.
- *†Leslie, C.E., **Peppe, D.J.**, Atchley, S.C., Williamson, T.E., Heizler, M., Nordt, L., 2015. Revised age constraints for late Cretaceous to early Paleocene strata from the Dawson Creek section, Big Bend National Park, west Texas, USA: *Journal of Vertebrate Paleontology, Program and Abstracts, 2015*: 162
- Peppe, D.J.**, Williamson, T.E., Secord, R., *†Flynn, A., *†Davis, A.J., Brusatte, S.L., 2015. Drivers of faunal turnover of early Paleocene mammalian communities in the San Juan Basin: *Journal of Vertebrate Paleontology, Program and Abstracts, 2015*: 193.
- Secord, R., Williamson, T.E., Brusatte, S.L., **Peppe, D.J.**, 2015. Stable isotope paleoecology of a diverse late Torrejonian (early Paleocene) mammalian fauna from the San Juan Basin, New Mexico: *Journal of Vertebrate Paleontology, Program and Abstracts, 2015*: 211.
- McNulty, K.P., Nengo, I.O., Fox, D.L., Stevens, N.J., Manthi, F.K., Mbuja, E.M., **Peppe, D.J.**, 2015. New partial cranium from an early Miocene locality at Lower Kapurtoy: *Annual American Association of Physical Anthropology Annual Meeting 2015*.

2014

- Snell, K.E., Eiler, J.M., Wernicke, B.P. **Peppe, D.J.**, Fox, D.L., Fetrow, A.C., Passey, B.H., 2014. Disentangling topographic and climatic change during the Late Cretaceous and Cenozoic in the Western US Cordillera: *EOS Transactions AGU*.
- Tryon, C.A., Faith, J.T., **Peppe, D.J.**, 2014. Human dispersals along the African Rift Valley in the Late Quaternary: *EOS Transactions AGU*.
- Faith, J.T., *O'Brien, H., Tryon, C., *Jenkins, K., **Peppe, D.J.**, 2014. Extreme nasal doming in new material of the Pleistocene Alcelaphine *Rusingoryx atopocranium* (Artiodactyla, Bovidae) from Rusinga Island, Kenya: Re-description and functional analysis: *Society of Vertebrate Paleontology Programs and Abstracts*: 127.
- Lehmann, T., **Peppe, D.J.**, Driese, S.G., *Jenkins, K., Sanders, W., McNulty, K.P., 2014. New fieldwork at Karungu (Early Miocene: Lake Victoria, Kenya): Preliminary paleontological and geological results: *Journal of Vertebrate Paleontology Programs and Abstracts*: 168.
- McNulty, K.P. MacLatchy, L., **Peppe, D.J.**, Nengo, I., Manthi, F.K., Miller, E., Stevens, N.J., Cote, S., Kingston, J., Lehmann, T. 2014. A regional approach to East African early Miocene paleobiology: *Journal of Vertebrate Paleontology, Programs and Abstracts*: 185.
- Secord, R., Williamson, T., **Peppe, D.J.**, Brusatte, S., 2014. Testing the link between climate change and mammalian faunal turnover during the Early Paleocene with a new stable isotope record from the San Juan Basin, New Mexico: *Journal of Vertebrate Paleontology, Programs and Abstracts*: 227.
- Williamson, T., **Peppe, D.J.**, Heizler, M., Brusatte, S., Secord, R., 2014. Chronostratigraphy of the Cretaceous-Paleogene transition in the San Juan Basin, northwestern New Mexico: *Society of Vertebrate Paleontology Programs and Abstracts*: 255-256.
- Peppe, D.J.**, *†Flynn, A., Williamson, T.E., Secord, R., Heizler, M., Brusatte, S. 2014. Early Paleocene terrestrial ecosystems in the San Juan Basin, New Mexico, USA: *Geological Society of America, Abstracts with Programs* 46(6): 422.
- **†Arellano, L., Beverly, E.J., **Peppe, D.J.**, Driese, S.G., Faith, T.J., Tryon, C.A., 2014. Using paleosols to reconstruct the paleoclimate of Late Pleistocene archeological sites in the Lake Victoria Basin, Kenya: *Geological Society of America, Abstracts with Programs* 46(6): 772.
- *†Beverly, E.J., Driese, S.G., **Peppe, D.J.**, Faith, J.T., Tryon, C.A., Roure-Johnson, C.A., *†Michel, L., Sharp, W., 2014. Pleistocene hominin paleoenvironmental reconstructions: sedimentology, micromorphology, and stable isotopes of riverine tufas from the Rusinga and Karungu regions of western Kenya: *Geological Society of America, Abstracts with Programs* 46(6): 712.
- Driese, S.G., **Peppe, D.J.**, *†Beverly, E.J., *DiPietro, L., Lehmann, T., McNulty, K.P., 2014. Miocene paleo-oxisol-vertisols formed on basalt records long duration of tropical weathering in Lake Victoria region of western Kenya preceding rapid subsidence and onset of lake-basin formation: *Geological Society of America, Abstracts with Programs* 46(6): 38.
- *†Flynn, A., **Peppe, D.J.**, **†Abbuhl, B., Williamson, T., 2014. Early Paleocene floras from the San Juan Basin, New Mexico, USA: Implications for local and regional responses to the Cretaceous-Paleogene extinction event: *Geological Society of America, Abstracts with Programs* 46(6): 757.
- *†Leslie, C.E., **Peppe, D.J.**, Atchley, S., Williamson, T., Nordt, L., 2014. Magnetostratigraphy of upper Cretaceous through lower Paleocene strata from the Dawson Creek section, Big Bend National Park, west Texas, USA: *Geological Society of America, Abstracts with Programs* 46(6): 134.

- *†Michel, L., **Peppe, D.J.**, Driese, S.G., 2014. Treatment methods for bulk soil geochemical proxy applications: lessons learned from early Miocene paleosols of the Lake Victoria region: *Geological Society of America, Abstracts with Programs* 46(6): 507.
- *†Flynn, A., **Peppe, D.J.**, **†Abbuhi, B., 2014. Fossil floras and climate of the Early Paleocene, San Juan Basin, New Mexico. *Midcontinent Paleobotanical Colloquium*.
- Heizler, M., Williamson, T., **Peppe, D.J.**, Mason, I.P., 2014. The Naashoibito is latest Cretaceous: *New Mexico Geological Society Annual Meeting*.
- Williamson, T., **Peppe, D.J.**, Heizler, M.T., **†Fenley, C.W., Brusatte, S.L., Secord, R., 2014. Chronostratigraphy of the Cretaceous-Paleogene transition in the San Juan Basin, New Mexico: *New Mexico Geological Society Annual Meeting*.
- *Garrett, N.D., Fox, D.L., McNulty, K.P., Tryon, C.A., Faith, J.T., **Peppe, D.J.**, 2014. Stable isotopic paleoenvironmental reconstruction of the late Pleistocene Middle Stone Age sites on Rusing and Mfangano Islands, Lake Victoria, Kenya: *American Journal of Physical Anthropology* 153: S58.
- McNulty, K.P. MacLatchy, L., Rossie, J.B., **Peppe, D.J.**, Deino, A.L., Mbuja, E.N., Manthi, F.K., Nengo, I.O., Miller, E.R., Stevens, N.J., Cote, S., Lehmann, T., Gutierrez, M., 2014. Research on East African catarrhine and hominoid evolution: Results from the first year. *American Journal of Physical Anthropology* 153, S58.
- Faith, J.T., Tryon, C.A., **Peppe, D.J.**, *†Beverly, E., *Blegen, N., *Blumenthal, S., *Chritz, K.J., Driese, S.G., *Patterson, D.B., 2014. Late Pleistocene archaeology of paleoenvironments of the Lake Victoria Basin. *PaleoAnthropology 2014: A1-A31*.
- *Blegen, N., Tryon, C.A., Faith, J.T., **Peppe, D.J.**, *†Beverly, E., 2014. Tephrostratigraphy and the archaeology of the Late Pleistocene, eastern Lake Victoria Basin, Kenya: a refined stratigraphic context for Late Pleistocene human evolution in East Africa: *PaleoAnthropology 2014: A1-A31*.

2013

- *Zaarur, S., Affek, H.P., Tryon, C.A., **Peppe, D.J.**, Faith, J.T., 2013. Causes of Late Pleistocene water level change in Lake Victoria, Equatorial Africa, derived from clumped isotopes of land snails and fresh water mollusks: *EOS Transactions AGU*.
- *Garrett, N., Fox, D.L., Tryon, C.A., Faith, J.T., **Peppe, D.J.**, 2013. Stable isotopic paleoenvironmental reconstructions of the late Pleistocene sites on Rusinga and Mfangano Islands, Lake Victoria, Kenya: *Journal of Vertebrate Paleontology, Program and Abstracts, 2013: 132*.
- *†Beverly, E.J., **Peppe, D.J.**, Faith, J.T., Tryon, C., *Blegen, N., Driese, S.G., **Arellano, L.N., 2013. Paleosol-based evidence for late Pleistocene paleoenvironments of the Lake Victoria region: *Geological Society of America, Abstracts with Programs* 45(7): 239.
- Faith, J.T., **Peppe, D.J.**, Tryon, C., *†Beverly, E.J., *Blegen, N., Driese, S.G., *Garrett, N., *O'Brien, H., *Patterson, D., *†Van Plantinga, A., 2013. Late Quaternary paleoenvironments in the lake Victoria Basin, Kenya: Climatic and biogeographic implications: *Geological Society of America, Abstracts with Programs* 45(7): 239.
- Heizler, M.T., Williamson, T.E., **Peppe, D.J.**, Ramenzani, J., Bowring, S.A., *Mason, I.P., 2013. ⁴⁰Ar/³⁹Ar chronostratigraphy of Cretaceous and Paleocene strata in the San Juan Basin, New Mexico: Accuracy limitation of high precision measurements: *Geological Society of America, Abstracts with Programs* 45(7): 239.
- *†Michel, L.A., **Peppe, D.J.**, Driese, S.G., McNulty, K.P., Fox, D.L., *Garrett, N., 2013. Equatorial paleoenvironment leading into the Miocene Climatic Optimum: Lessons learned from Rusinga and Mfangano Islands, Lake Victoria, Kenya: *Geological Society of America, Abstracts with Programs* 45(7): 239.
- Peppe, D.J.**, Heizler, M.T., Williamson, T.E., *Mason, I.P., Brusatte, S., Weil, A., Secord, R., 2013. New age constraints on the late Cretaceous through early Paleocene rocks in the

- San Juan Basin, New Mexico: *Geological Society of America, Abstracts with Programs* 45(7): 239.
- Snell, K.E., **Peppe, D.J.**, Eiler, J.M., Wernicke, B.P., 2013. Paleotemperature and oxygen isotopes in the western USA from 80 MA to present: *Geological Society of America, Abstracts with Programs* 45(7): 56.
- *Zaarur, S., Affek, H.P., Tryon, C.A., **Peppe, D.J.**, Faith, J.T., 2013. Causes of Late Pleistocene Lake Victoria water level change, derived from clumped isotopes in land snails and fresh water mollusks: *Mineralogical Magazine* 77(5): 2574.
- Tryon, C.A., Faith, J.T., **Peppe, D.J.**, *Blegen, N., *†Beverly, N., *Patterson, D., Jacobs, Z., 2013. Pleistocene archaeology and paleoenvironments of the Lake Victoria Basin in Kenya: *PaleoAnthropology 2013*:A1-A41.
- **†McCollum, M.S., **Peppe, D.J.**, McNulty, K.P., Dunsworth, H.M., Harcourt-Smith, W.E.H., **†Andrews, A.L., 2013. Magnetostratigraphy of the early Miocene Hiwegi Formation (Rusinga Island, Lake Victoria, Kenya): *Geological Society of America, Abstracts with Programs* 45(3): 12.
- Williamson, T., Brusatte, S.L., **Peppe, D.J.**, Secord, R., Weil, A., 2013. No evidence for conformable contact between the Ojo Alamo Sandstone and the Nacimineto Formation. *New Mexico Geological Society Annual Meeting*.

2012

- *†Michel, L.A., **Peppe, D.J.**, McNulty, K.P., Driese, S.G., Lutz, J. *Nightingale, S., **Maxbauer, D.P., **†Horner, W.H., **†DiPietro, L.M., Lehmann, T., Dunsworth, H.M., Harcourt-Smith, W.E., Ogondo, J., 2012. Paleoclimatic and paleoecological reconstruction of early Miocene terrestrial equatorial deposits, Rusinga and Mfangao Islands, Lake Victoria, Kenya: *Eos Transactions AGU*: PP31B-2036.
- Snell, K.E., **Peppe, D.J.**, Eiler, J.M., Wernicke, B.P., Koch P.L., 2012. Recent advances and ongoing challenges of estimating past elevation from climate proxy data: *EOS Transactions AGU*: T24C-07.
- *†Beverly, E.J., Faith, J.T., **Peppe, D.J.**, Tryon C.A., Driese, S.G., *Blegen, N., *Patterson, D., **†Horner, W.H., 2012. Paleoenvironmental context of Pleistocene archaeological and paleontological sites in Kenya's Lake Victoria Basin: *Geological Society of America, Abstracts with Programs* 44(7): 415.
- **†Horner, W.H., *†Michel, L.A., **Peppe, D.J.**, Driese, S., McNulty, K.P., Lehmann, T., Dunsworth, H.M., Harcourt-Smith, W.E.H., 2012. Determining depositional heterogeneity through clay mineralogy and particle size analysis of an early Miocene paleo-forest paleosol, Hiwegi Formation, Rusinga Island, Kenya: *Geological Society of America, Abstracts with Programs* 44(7): 241.
- **†McCollum, M.S., **Peppe, D.J.**, McNulty, K.P., Dunsworth, H.M., Harcourt-Smith, W.E.H., **†Andrews, A.L., 2012. Magnetostratigraphy of the early Miocene Hiwegi Formation (Rusinga Island, Lake Victoria, Kenya): *Geological Society of America, Abstracts with Programs* 44(7): 241.
- *†Michel, L.A., **Peppe, D.J.**, McNulty, K.P., Driese, S.G., Lehmann, T., *Nightingale, S., **†Horner, W.H., Dunsworth, H.M., Harcourt-Smith, W.E.H., Lutz, J.A., 2012. Seeing the apes through the trees: Paleoecological reconstruction of a *Proconsul* and *Dendropithecus* site on Rusinga Island, Kenya: *Geological Society of America, Abstracts with Programs* 44(7): 364.
- *Jenkins, K., Faith, J.T., Tryon, C.A., **Peppe, D.J.**, *Nightingale, S., Ogondo, J., Roure Johnson, C., Driese, S., 2012. New excavations of a Late Pleistocene bonebed and associated MSA artifacts, Rusinga Island, Kenya: *PaleoAnthropology 2012*.
- *†Lemons, C.R., **Peppe, D.J.**, 2012. Are fen leaf economics coherent enough to use as a proxy for fossil interpretations?: *Midcontinent Paleobotanical Colloquium 2012*: 22.

Williamson, T. E., Brusatte, S.L., **Peppe, D.J.**, Secord, R., Weil, A., 2012. Early Paleocene climate change and biotic recovery of plants and animals of the San Juan Basin, New Mexico: A preliminary report: *Geological Society of America, Abstracts with Programs* 44(6):69.

Williamson, T. E., Brusatte, S.L., **Peppe, D.J.**, Secord, R., Weil, A. 2012. No evidence for conformable contact between the Ojo Alamo Sandstone and the Nacimiento Formation: *New Mexico Geological Society Annual Meeting*: 34.

2011

*Stinchcomb, G. E., **Peppe, D.J.**, Driese, S.G., 2011. Time as an important soil-forming factor influencing modern and ancient magnetic susceptibility enhancement along the Delaware River Valley, USA: *Eos Transactions AGU*: GP33A-1115.

Williamson, T.E., **Peppe, D.J.**, Secord, R., *Brusatte, S., Weil, A., 2011. A long-term terrestrial record of Early Paleocene climate and ecosystem change in the San Juan Basin, New Mexico: *Journal of Vertebrate Paleontology, Program and Abstracts, 2011*: 214-215A.

Peppe, D.J., Deino, A.L., Lehmann, T., Dunsworth, H.M., Harcourt-Smith, W.E.H., McNulty, K.P., 2011. New age constraints for the early Miocene faunas of Rusinga and Mfangano Islands (Lake Victoria, Kenya): *Journal of Vertebrate Paleontology, Program and Abstracts, 2011*.

*†Michel, L.A., **Peppe, D.J.**, Driese, S., McNulty, K.P., Lehmann, T., Dunsworth, H.M., Harcourt-Smith, W.E.H., 2011. Paleoenvironmental reconstruction of early Miocene catarrhine localities using fossil forest paleosols from Rusinga Island, Lake Victoria, Kenya: *Geological Society of America, Abstract with Programs* 43(5): 429.

*†Lemons, C.R., **Peppe, D.J.**, Royer, D.L., Wright, I.J., Lusk, C.B., 2011. Are modern fern leaf economics coherent enough to use as a proxy for fossil interpretations?: *Geological Society of America, Abstract with Programs* 43(5): 615.

Peppe, D.J., Faith, J.T., Tryon, C.A., Fox, D.L., *Garrett, N., *†Van Plantinga, A., Keegan, W., *Nightingale, S., Ogondo, J., *Zaarur, S., 2011. Terrestrial evidence for late Quaternary lake level changes from the Lake Victoria Basin, Equatorial Africa: *Geological Society of America, Abstract with Programs* 43(5): 335.

*†Lemons, C.R., **Peppe, D.J.**, Royer, D.L., Wright, I.J., Lusk, C.B., 2011. Linking ecologies past and present: fern leaf economics quantified: *Ecological Society of America Annual Meeting*.

Peppe, D.J., *†Lemons, C., Royer, D.L., 2011. Fern leaf economic quantified: *Midcontinent Paleobotanical Colloquium 2011*.

†Maxbauer, D.P., **Peppe, D.J., Bamford, M, McNulty, K., Dunsworth, H., Harcourt-Smith, W.E.H., Davis, L.E., 2011. New paleoenvironmental and paleoclimatic interpretations from fossil leaves for the Early Miocene faunas of Rusinga Island (Lake Victoria, Kenya): *PaleoAnthropology 2011*.

Tryon, C.A., Faith, J.T., **Peppe, D.J.**, *†Van Plantinga, A., Fox, D.L., *Garrett, N., Keegan, W.F., Ogondo, J. 2011. Middle Stone Age hominin occupation of arid environments in the Lake Victoria basin: New evidence from Rusinga and Mfangano islands, Kenya: *PaleoAnthropology 2011*.

Peppe, D.J., Deino A.L., McNulty, K.P., Lehmann, T., Harcourt-Smith, W.E.H., Dunsworth, H.M., Fox, D.L., 2011. New age constraints on the early Miocene faunas from Rusinga and Mfangano Islands (Lake Victoria, Kenya), *American Journal of Physical Anthropology*, 144(S52): 237.

2010

- *Garrett, N.D., Fox, D.L., McNulty, K.P., Tryon, C.A., **Peppe, D.J.**, 2010. Isotope paleoecology of the Pleistocene Wasiriya Beds of Rusinga Island, Kenya, *Journal of Vertebrate Paleontology* 30(3): 94A.
- Tryon, C.A., Faith, J.T., **Peppe, D.J.**, 2010. Late Quaternary mammals from Rusinga Island, Kenya: implications for environmental change and megafaunal extinctions, *Journal of Vertebrate Paleontology* 30(3).
- *†Van Plantinga, A., **Peppe, D.J.**, Tryon, C., Faith, J.T., 2010. Geoarcheology of the Pleistocene Wasiriya Beds, Rusinga Island, Kenya: *Geological Society of America, Abstract with Programs* 42(5): 578.
- Peppe, D.J.**, Tryon, C.A., Faith, J.T., *†Van Plantinga, A., *Garrett, N.D., Fox, D.L., *Nightingale, S., Ogondo, J., 2010. Late Pleistocene expansion of arid grasslands in equatorial Africa: evidence from the Pleistocene Wasiriya Beds, Rusinga Island, Lake Victoria, Kenya: *Texas Association of Biological Anthropology Annual Meeting*.
- **†DiPietro, L., *†Michel, L.A., **Peppe, D.J.**, 2010. Late Pleistocene expansion of arid grasslands in equatorial Africa: evidence from the Pleistocene Wasiriya Beds, Rusinga Island, Lake Victoria, Kenya: *Texas Association of Biological Anthropology Annual Meeting*.
- *†Van Plantinga, A.A., **Peppe, D.J.**, Tryon, C., Faith, J.T., 2010. Geoarchaeology of the Pleistocene Wasiriya Beds, Rusinga Island, Kenya: *Texas Association of Biological Anthropology Annual Meeting*.
- Tryon, C., 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. Paleoenvironmental context for Middle Stone Age hominins in Equatorial Africa: The Pleistocene Wasiriya Beds of Rusinga Island (Kenya): *PaleoAnthropology 2010*: A34.
- Dunsworth, H.M., Harcourt-Smith, W.E.H., McNulty, K.P., **Peppe, D.J.**, 2010. New catarrhine fossils from the early Miocene of Rusinga and Mfangano Islands, Kenya: *American Journal of Physical Anthropology Supplement* 47: 74.

2009 and earlier

- Peppe, D.J.**, Royer, D.L., **Oliver, S., 2009, Digital Leaf Physiognomy: Using Leaf Size and Shape to Reconstruct Early and Middle Paleocene Climate Change in the Western Interior of North America: *Eos Transactions AGU*: PP11F-06.
- Royer, D.L., **Peppe, D.J.**, Wilf, P., 2009, Paleoaltimetry from Fossil Leaves: Errors Bigger than Mountains: *Eos Transactions AGU*: T43D-2141.
- Peppe, D.J.**, Royer, D.L., **Oliver, S., 2009, Digital leaf physiognomy: using leaf size and shape to reconstruct ancient climates: *Geological Society of America, Abstract with Programs* 41(7): 568.
- Fox, D.L., **Peppe, D.J.**, McNulty, K.P, Harcourt-Smith, W. Dunsworth, H.M., Lehmann, T., **†Andrews, A.L., 2009, Geochronology, stratigraphy, and paleoenvironments of early Miocene vertebrate faunas from Mfangano and Rusinga Islands, eastern Lake Victoria, Kenya: *Geological Society of America, Abstract with Programs*, 41(7): 362.
- Tryon, C., Faith, T.J, **Peppe, D.J.**, Fox, D.L., McNulty, K.P., Dunsworth, H.M., Harcourt-Smith, W., Manthi, F.K., 2009, Paleoenvironmental context for modern human origins in equatorial Africa: introducing the Pleistocene Wasiriya Beds of Rusinga Island (Kenya): *Geological Society of America, Abstract with Programs*, 41(7): 362.
- **†Andrews, A.L., **Peppe, D.J.**, McNulty, K.P., Harcourt-Smith, W., Dunsworth, H.M., Deino, A.L., Fox, D.L., 2009, Magnetostratigraphy of the early Miocene Kulu and Hiwegi Formations on Rusinga Island (Lake Victoria, Kenya): *Geological Society of America, Abstract with Programs*, 41(7): 672.

- Royer, D.L., **Peppe, D.J.**, Miller, I.M, Hickey, L.J., 2009, Leaf economic traits from fossils support a weedy origin for angiosperms: *Geological Society of America, Abstract with Programs*, 41(7): 564.
- Peppe, D.J.** and Brandon, M.T., 2009, Paleobotanical evidence for warm tropical conditions in the Early Paleogene: *Climate and Biotic Events of the Early Paleogene International Conference*.
- Peppe, D.J.** and Hickey, L.J., 2008. Unexpected patterns of floral diversity and heterogeneity in the earliest Paleocene of the North Rocky Mountains and Great Plains: *Geological Society of America, Abstract with Programs* 40(6): 323.
- Miller, I., Brandon, M., Johnson, K.R., **Peppe, D.**, Dunn, R., and Ellis, B., Paleobotanical estimates of Laramide relief in the Western Interior of North America: *Geological Society of America, Abstract with Programs* 40(6): 323.
- Bowring, S.A., Johnson, K.R., Clyde, W., Ramezani, J., Miller, I., and **Peppe, D.**, 2008. A Paleocene timescale for the Rocky Mountains: status and potential: *Geological Society of America, Abstract with Programs* 40(6): 322.
- Royer, D.L., **Peppe, D.J.**, Cariglino, B., Wilf, P. Johnson, K. Iglesias, A., 2008. Digital leaf physiognomy: a multivariate technique for reconstructing climate from fossil leaves: *Geological Society of America, Abstract with Programs* 40(6): 100.
- Peppe, D.J.** and Hickey, L.J., 2008. Plant community response to mass extinction and climate changes in the Paleocene Williston Basin of North Dakota, USA: *International Organization of Paleobotany Conference*.
- Peppe, D.J.**, Hickey, L.J., and Evans, D.A.D., 2007. Floral change in the North American Paleocene: *Geological Society of America, Abstract with Programs* 39(6): 192.
- Peppe, D.J.** and Evans, D.A.D., 2006, Magnetostratigraphy and Magnetic Mineralogy of the Ludlow Member of the Fort Union Formation (Lower Paleocene) of the Williston Basin in North Dakota: *Eos Transactions AGU*: GP11A-070.
- Reiners, P.W., **Peppe, D.**, Bibi, F., and Nicolescu, S., 2006, He Diffusion in and (U-Th)/He Dating of Fossil Tooth Enamel and Conodonts: *Goldschmidt Conference 2006*: S10-2.
- Peppe, D.J.**, Evans, D.A.D., and Hickey, L.J., 2006, Magnetostratigraphy of the lower Paleocene in the Williston Basin of North Dakota, USA: Implications for plant and mammal biostratigraphy and biochronology, in Caballero, F., Apellaniz, E., Baceta, J.I., Bernaola, G., Orue-Etxebarria, X., Payros, A., and Pujalta, V., eds., *Climate and Biota of the Early Paleogene 2006*, Volume of Abstracts: Bilbao, Spain, CROMAN: 98.
- Peppe, D.J.** and Evans, D.A.D., 2006, Magnetostratigraphy of the Lowermost Paleocene Fort Union Formation in the Williston Basin of North Dakota: Base of a Terrestrial Reference Section for Early Cenozoic Global Change: *Eos Transactions AGU* 87(36), Joint Assembly Supplement: GP42A-01.
- Peppe, D.J.**, Evans, D.A.D. and Hickey, L.J., 2005. Magnetostratigraphy and megafloora of the lower Paleocene along the southwestern margin of the Williston Basin in North Dakota: *Geological Society of America, Abstract with Programs* 37(7): 63-11.
- Larson, D. and **Peppe, D.J.** 2005. A re-evaluation of the Taxodiaceous taxa present in a Late Paleocene deposit in central North Dakota: a scanning electron analysis of morphology and anatomy: *Geological Society of America, Abstract with Programs* 37(1): 82.
- Peppe, D.J.**, and Erickson, J.M., 2004. Coastal paleoclimate estimates from Late Maastrichtian Fox Hills I floral physiognomy, North Dakota, USA: *International Organization of Paleobotany Conference Program*: 87-88.
- Peppe, D.J.**, and Erickson, J.M., 2002. Fox Hills I: A new late Maastrichtian megafloral zone from the Missouri Valley Region, demonstrating eastward diachroneity of the Hell Creek Formation in North Dakota: *Geological Society of America, Abstract with Programs* 34(6): 429.

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 2019, 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, degree expected 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.)
- 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)
- Casey Lemons, graduated May 2012, "*Leaf economics and biomechanics in extant ferns*" (Research Scientist Associate III, Bureau of Economic Geology)

Undergraduate B.S. thesis

- Jie Geng, degree expected May 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 Futcher, 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

Zhao Wang, PhD
Tori Tew, MS
Will Matthaeus, PhD (Biology)
Don Esker, PhD
Yohan Letourmay, PhD
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 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

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

Manuscript Reviews

Acta Oecologica
American Journal 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
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 recherché (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

Session co-convener, Geological Society of America Meeting, 2016, "Timing, drivers, and marine and terrestrial ecosystem response to the Cretaceous-Paleogene extinction event"
Session co-convener, Geological Society of America Meeting, 2012, "Fossil plants as paleoenvironmental recorders"
Judge, Outstanding Student Presentation Awards, AGU Fall Meeting 2011
Session co-convener, American Geophysical Union Fall Meeting, 2011, "Tectonics, erosion and paleoclimate: Insights from geochemistry, paleobiology, geochronology, and modeling"
Session co-convener, 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 – Present
Nominations Committee, The Paleontological Society, 2012 – 2016

Scientific Outreach

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/im-plant-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.equ.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