

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, Department of Geosciences 2016 - Present
Associate Professor, Baylor University, Department of Geosciences 2015 - Present
Assistant Professor, Baylor University, Department of Geosciences 2009 – 2015
Post-doctoral Research Associate, Wesleyan University,
 Department of Earth and Environmental Sciences 2008 – 2009
Teaching Fellow, Yale University, Department of Geology and Geophysics: 2003 – 2008
 Stratigraphy and Sedimentology, History of Life, Physical Geology
Math and Science Tutor, Yale University, Yale College 2005 – 2008
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

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
 the fossil record, Yale Peabody Museum 2011
Summer Sabbatical (competitive application), Baylor University 2011
The Philip M. Orville Prize for outstanding research and scholarship in
 the earth sciences, Yale Graduate School of Arts and Sciences, Yale University 2008
Visiting Research Fellowship, Institute of Rock Magnetism, University of Minnesota 2008
Yale Institute for Biospheric Studies Graduate Fellowship 2006 – 2008
Phi Beta Kappa Honorary Society 2003

RESEARCH GRANT AWARDS

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 – 8/31/17 (48 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)

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 – Behavioral and Cognitive Sciences, Biological Anthropology (BCS-1241812): *IPG: Collaborative Research: Research on East African Catarrhine and Hominoid Evolution*; Project duration: 9/24/12 – 9/23/17 (60 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)

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

- (42) **Peppe, D.J.**, *†Baumgartner, A., *†Flynn A., Blonder, B. *accepted*, 2017.
Reconstructing Paleoclimate and paleoecology using fossil leaves. In Croft, D.A., Simpson, S.W. and Su, D.F. (eds.), *Methods in Paleoecology: Reconstructing Cenozoic Terrestrial Environments and Ecological Communities*. Springer (Vertebrate Paleobiology and Paleoanthropology Series), Dordrecht

- (41) Deino, A.L., **Peppe, D.J.**, *in press*, Geochronology: *International Encyclopedia of Anthropology*.
- (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.
- (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 *Tachyoryctes 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.
- (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.
- (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
- (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 Palaeoenvironments*. Springer: 233-245. doi: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
- (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

- (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):11611-1635. doi: 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 tephras 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): 338-47.
- (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 Wasiriya 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 megafloreal zone within the Williston Basin of North Dakota, B.S. Thesis, St. Lawrence University, Canton, NY: 155 p.

INVITED PRESENTATIONS

<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

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.**, **†Abbuhl, 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.**, **†Abbuhl, 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 AGU*.
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- 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 megaflora 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 2020, Thesis topic: “*CO₂ reconstruction of the early Paleocene*”
- Aly Baumgartner, degree expected 2019, Thesis topic: “*Leaf Physiognomy and Climate: an African perspective*”
- Andrew Flynn, degree expected 2018, Thesis topic: “*Early Paleocene floras of the Nacimiento Formation, San Juan Basin, New Mexico*”
- Caitlin Leslie, degree expected 2018, Thesis topic: “*Magnetostratigraphy of the Big Bend National Park, west Texas, and sequence stratigraphy of the Paleocene Nacimiento Formation, San Juan Basin*”
- Adam Davis, degree expected 2018, Thesis Topic: “*Sedimentology and stratigraphy of the Paleocene Nacimiento Formation, San Juan Basin, New Mexico, USA*”
- Emily Beverly, graduated December 2015, “*Reconstruction of Late Pleistocene paleoenvironments of the Lake Victoria region using paleosols and freshwater tufa*”
- Lauren Michel, graduated May 2014, “*Field, micromorphologic and stable isotopic comparative study of modern and ancient soils from Riesel, Texas and Rusinga Island, Kenya*”

M.S.

- Kennedy Oginga, degree expected 2018, “*Geology and paleoenvironments of the early Miocene sites at Koru, Kenya*”
- Alexander Van Plantinga, graduated December 2011, “*Geology of the Late Pleistocene Artifact-Bearing Wasiriya Beds at the Nyamita Locality, Rusinga Island, Kenya*”
- Casey Lemons, graduated May 2012, “*Leaf economics and biomechanics in extant ferns*”

Undergraduate B.S. thesis

- Tyler Leggett, degree expected August 2017, “*Magnetostratigraphy of the early Paleocene upper Nacimiento Formation, San Juan Basin, New Mexico, USA*”
- April Jeannie Freeman, degree expected 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 Cofee 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

Logan Wiest, PhD

Kasey Bolles, PhD

Bill Lukens, PhD

Yohan Letourmay, PhD

Lyndsay DiPietro, PhD

Todd Longbottom, PhD

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)

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

Review Editor, *Frontiers in Earth Sciences: Frontiers in Geomagnetism and Paleomagnetism*, 2013 – Present

Manuscript Reviews

Acta Oecologica

American Journal of Botany
Basic and Applied Ecology
Canadian Journal of Earth Science
Cretaceous Research
Comptus rendus Palevol
Earth and Planetary Science Letters
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
Proceedings of the National Academy of Science
Palaios
Palaeogeography, Palaeoclimatology, and Palaeoecology
Paleobiology
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)
National Geographic Society
New Generation of Polar Researchers Leadership Symposium (NGPR)
National Science Foundation (Antarctic Earth Science, 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-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 – Present

Nominations Committee, The Paleontological Society, 2012 – 2016

Scientific Outreach

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, Evergreen Studios and BBC Earth, animated program focused on mammals after the Cretaceous-Paleogene extinction

Scientific consultant, BBC Earth, Walking With Dinosaurs: www.walkingwithdinosaurs.com

Contributing author, BBC Earth, Walking With Dinosaurs, WWD Features, “K-T extinction: the plants that followed dinosaurs into extinction”:

www.walkingwithdinosaurs.com/news/editorial/k-t-extinction-plants-that-died-out-with-dinosaurs

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-](http://www.amnh.org/explore/science-bulletins/(watch)/human/documentaries/expedition-rusinga-uncovering-our-adaptive-origins)

[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)

Summer Faculty Institute, Guest Facilitator, Academy for Teaching and Learning 2016

Search Committee Chair, 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 of Physical Anthropologists; American Geophysical Union; Geological Society of America; International Organization of Paleobotany; Paleontological Society; Society of Vertebrate Paleontology