

CURRICULUM VITAE

David Lupton Fox

Contact information

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Personal

Birth: 27 May 1969, Cambridge, MA, U.S.A. Citizenship: U.S.A.

Education

1995-1999 Ph.D. Geological Sciences, University of Michigan
Dissertation title: Carbon and Oxygen Isotope Composition of *Gomphotherium* Tusks:
Reconstructing Diet and Climate Change in North America During the Late Miocene
Advisor: Daniel C. Fisher
1993-1995 M.S. Geological Sciences, University of Michigan
1987-1991 B.A. Biological Anthropology, Harvard University

Professional appointments

2016-2017 Visiting Fellow, University College, University of Oxford
2015-present Professor, Department of Earth Sciences, University of Minnesota
2015-present Graduate faculty, Department of Anthropology, University of
Minnesota
2007-2015 Associate Professor, Department of Earth Sciences, University of
Minnesota (Department of Geology and Geophysics until 07/2011)
2006-present Museum Associate, Bell Museum of Natural History, University of
Minnesota
2006-present Graduate faculty, Department of Ecology, Evolution, and Behavior,
University of Minnesota
2002-2007 Research Associate, Science Museum of Minnesota, St. Paul, MN
2001-2007 Assistant Professor, Department of Geology and Geophysics,
University of Minnesota
1999-2001 National Science Foundation Earth Sciences Postdoctoral Fellow
Department of Earth Sciences, University of California, Santa Cruz
(Mentor: Paul L. Koch)

Research interests

Stable isotope ecology and paleoecology of mammals; biogeography and paleobiogeography;
geochemistry of biogenic apatites, pedogenic carbonates, and sedimentary organic matter;
reconstruction of diet from tooth morphology and geochemistry; paleoclimate reconstruction;
relationship between community organization and climate

Awards

- 2018 Horace T. Morse – University of Minnesota Alumni Association Award for Outstanding Contributions to Undergraduate Education
- 2010 Edward P. Bass Distinguished Visiting Environmental Scholar, Yale Institute for Biospheric Studies, Yale University

Grants funded

- 2018-2021 NSF DEB-Phylogenetic Systematics: Collaborative Research: Rates of lineage, phenotypic, and genomic diversification in replicated radiations of murine rodents
Role: Co-PI with Sharon Jansa (lead PI, Univ. of Minnesota, Kieran McNulty (Co-PI, Univ. of Minnesota), Jacob Esselstyn (Project lead PI, Louisiana State Univ.), Jeffrey Good (PI, Univ. of Montana)
Total budget: \$969,500, Univ. of Minnesota budget: \$258,123
- 2014-2017 Legislative-Citizen Commission on Minnesota Resources: Impacts of forest quality on declining Minnesota moose
Role: Co-PI with James Forester (PI, Univ. of Minnesota) and Anthony D'Amato (Co-PI, Univ. of Minnesota)
Total budget: \$300,000
- 2013-2016 NSF EAR-Sedimentary Geology and Paleobiology: ELT Collaborative Research: Evolutionary and ecological responses of small mammal communities to habitat and climate change over the last 5 million years
Role: Lead PI with Josh Feinberg (Co-PI, Univ. of Minnesota), Kena Fox-Dobbs (PI, Univ. of Puget Sound), John Eiler (PI, CalTech), Katie Snell (Co-PI, Univ. of Colorado), Pratigya Polissar (PI, Lamont Dougherty Earth Observatory, Columbia Univ.), Kevin Uno (Co-PI, Lamont Dougherty Earth Observatory, Columbia Univ.), Jung Eun-Lee (PI, Brown Univ.)
Total budget: \$687,000, Univ. of Minnesota budget: \$186,957
- 2013 Grant-in-Aid of Research, Artistry, and Scholarship, University of Minnesota (Category 6: New Research Direction): Testing models of community change using X-ray computed tomography images of fossils
Role: PI
Total budget: \$9,275
- 2013-2017 NSF BCS-Biological Anthropology: Collaborative Research: IPG: Research on East African Catarrhine and Hominoid Evolution.
Role: Co-PI with Kieran McNulty (Lead PI, Univ. of Minnesota), Martha Tappen (Co-PI, Univ. of Minnesota) Dan Peppe (PI, Baylor Univ.), Steve Driese (Co-PI, Baylor Univ.), Laura MacLatchy (PI, Univ. of Michigan), James Rossie (PI, Stonybrook Univ.), Al Deino (PI, Berkeley Geochronology Center).
Total budget: \$750,000, Univ. of Minnesota budget: \$281,472
- 2010-2012 NSF BCS-Archaeology: Collaborative Research: Quaternary Archaeology and Environments of Rusinga and Mfangano Islands, Kenya.

- Role: PI with Christian Tryon (Lead PI, New York Univ.) and Dan Peppe (PI, Baylor Univ.)
 Total budget: \$210,000, Univ. of Minnesota budget: \$28,015
- 2006-2009 NSF EAR-Instrumentation and Facilities: Acquisition of a new stable isotope ratio mass spectrometer system for environmental and paleoclimatic research.
 Role: Co-PI with Emi Ito (Lead PI, Univ. of Minnesota) and Larry Edwards (Co-PI, Univ. of Minnesota).
 Total budget: \$300,000
- 2006-2009 NSF EAR-Sedimentary Geology and Paleobiology: Collaborative research: Paleobiology and extinction of woolly mammoths in northern Siberia and Wrangel Island.
 Role: PI with Dan Fisher (Lead PI, Univ. of Michigan).
 Total budget: \$510,000, Univ. of Minnesota budget: \$210,000
- 2005-2007 NSF EAR-Sedimentary Geology and Paleobiology: Evolution of marine mammal foraging behavior based on Ca and C isotope ratios in bioapatite.
 Role: Lead PI with Larry Edwards (Co-PI, Univ. of Minnesota).
 Total budget: \$155,000
- 2002-2004 NSF EAR-Geology and Paleontology: Collaborative research: Plio-Pleistocene Mammal Faunas and Environmental Change in the Meade Basin of Southwestern Kansas: a Combined Stratigraphic, Faunal, and Isotopic Approach
 Role: PI with Bob Martin (Lead PI, Murray State University).
 Total budget: \$109,686, Univ. of Minnesota budget: \$45,000
- 2002 Grant-in-Aid of Research, Artistry, and Scholarship, University of Minnesota, AMS dating and stable isotope ecology of woolly mammoths from Siberia.
 Role: PI
 Total budget: \$26,700

Professional society memberships (year of first membership)

- Paleontological Society (1994)
- Society of Vertebrate Paleontology (1994)
- Geological Society of America (1997)
- American Society of Mammalogists (2016)
- SACNAS (Society for the Advancement of Chicanos and Hispanics in Science; 2019)

Service: Department of Earth Sciences, University of Minnesota

- 2017-present Director of Graduate Studies
- 2017-present Graduate Studies Committee
- 2010-present Awards Committee
- 2004-present Field Camp Committee
- 2018-2019 Geochemistry faculty search committee
- 2011-2016 Departmental liaison to the Writing Enriched Curriculum program
- 2010-2016 Director of Undergraduate Studies
- 2009 (Spring) Director of Undergraduate Studies
- 2007-2008 Biogeoscience faculty search committee

2006-2007	Strategic Planning Committee
2005-2008	Executive Review Committee
2004-2005	Paleoclimate faculty search committee
2002-2003	George and Orpha Gibson Professorship search committee
2002	Community Campaign Fund department volunteer
2001-2016	Undergraduate Studies Committee
2001-2002	Geolimnology faculty search committee
2001	Community Campaign Fund department volunteer

Service: College of Science and Engineering, University of Minnesota

2010-2016	Academic Standards and Student Affairs Committee
2010-2016	Curriculum Committee

Service: University of Minnesota

2015-present	Council on Liberal Education
2019	University Librarian and Dean of Libraries Search Committee
2017-2018	History of Science, Technology, and Medicine faculty search committee
2010-2016	University Senate Library Committee (Chair, 2015-2016)
2008-2011	Board of Advisors, Institute for Advanced Study
2008-2009	President's Trademark Licensee Code of Conduct Working Group
2006-2007	Biological Anthropology search committee, Dept. of Anthropology
2005-2006	Herpetology/invertebrate curator search committee, Bell Museum of Natural History
2004-2009	University Senate Social Concerns Committee (Chair, 2008-2009)
2002-2005	Campus Club Board of Directors

Service: professional and extramural

2019-present	Geological Society of America Graduate Student Research Grant Committee
2003-present	Treasurer and Editorial Board member, <i>Palaeotologia Electronica</i> (http://www.omnh.ou.edu/paleo/)
2011-present	Associate Editor, <i>PALAIOS</i>
2013-2014	Chair, Committee on Nominations, Paleontological Society
2012-2014	Committee on Nominations, Paleontological Society
2010-2018	Associate Editor, <i>Paleobiology</i>
2007-2015	Program Committee, Society of Vertebrate Paleontology
2006-2015	Chair, Romer Prize Committee, Society of Vertebrate Paleontology (outstanding student paper at the annual meeting)
2002-2003	Host committee, 2003 Society of Vertebrate Paleontology annual meeting, held in St. Paul MN
1996-2008	Membership Committee member, Society of Vertebrate Paleontology (Co-chair, 1999-2000)

Service: Reviews of journal articles by year (98 total)

2021	3	<i>Journal of Mammalogy</i> (1), <i>Palaeogeography</i> , <i>Palaeoclimatology</i> , <i>Palaeoecology</i> (1), <i>Quaternary Research</i> (1)
2020	5	<i>Earth and Planetary Sciences</i> (1), <i>Geophysical Research Letters</i> (1), <i>Journal of Mammalogy</i> (1), <i>Paleobiology</i> (1), <i>Sedimentology</i> (1)

2019	7	<i>Earth and Planetary Sciences</i> (2), <i>Geology</i> (1), <i>Quaternary Research</i> (1), <i>Palaeogeography</i> , <i>Palaeoclimatology</i> , <i>Palaeoecology</i> (2), <i>PLoS One</i> (1),
2018	2	<i>Geophysical Research Letters</i> (1), <i>Palaeogeography</i> , <i>Palaeoclimatology</i> , <i>Palaeoecology</i> (1)
2017	3	<i>Journal of Animal Ecology</i> (1), <i>Journal of Biogeography</i> (1), <i>Organic Geochemistry</i> (1)
2016	4	<i>Organic Geochemistry</i> (2), <i>Paleobiology</i> (1), <i>PLoS One</i> (1)
2015	3	<i>Global and Planetary Change</i> (1), <i>Oecologia</i> (1), <i>Proceedings of National Academy of Science</i> (1)
2014	4	<i>Earth and Planetary Sciences</i> (1), <i>Journal of Mammalogy</i> (1), <i>Nature Geoscience</i> (1), <i>Quaternary Reviews</i> (1)
2013	4	<i>Geology</i> (1), <i>Earth and Planetary Sciences</i> (2), <i>Palaeogeography</i> , <i>Palaeoclimatology</i> , <i>Palaeoecology</i> (1)
2012	11	<i>Earth and Planetary Sciences</i> (2), <i>Geology</i> (1), <i>Journal of Mammalian Evolution</i> (1), <i>Journal of Mammalogy</i> (1), <i>Palaeogeography</i> , <i>Palaeoclimatology</i> , <i>Palaeoecology</i> (3), <i>Proceedings of the National Academy of Science</i> (2), <i>Sedimentology</i> (1)
2011	7	<i>Earth and Planetary Sciences</i> (2), <i>Geochimica et Cosmochimica Acta</i> (1), <i>Journal of Mammalogy</i> (1), <i>Geological Society of America Bulletin</i> (1), <i>Palaeogeography</i> , <i>Palaeoclimatology</i> , <i>Palaeoecology</i> (1), <i>Proceedings of Royal Academy B</i> (1)
2010	5	<i>Geochimica et Cosmochimica Acta</i> (1), <i>Geological Society of America Bulletin</i> (1), <i>Naturwissenschaften</i> (1), <i>PALAIOS</i> (1), <i>Proceedings of the National Academy of Science</i> (1)
2009	7	<i>Earth and Planetary Science Letters</i> (3), <i>Geochimica et Cosmochimica Acta</i> (1), <i>PLoSOne</i> (1), <i>Proceedings of the National Academy of Science</i> (1), <i>Palaeogeography</i> , <i>Palaeoclimatology</i> , <i>Palaeoecology</i> (1)
2008	2	<i>Geological Society of America Bulletin</i> (2), <i>Palaeogeography</i> , <i>Palaeoclimatology</i> , <i>Palaeoecology</i> (1)
2007	5	<i>Frontiers in Ecology and Evolution</i> (2), <i>Paleobiology</i> (1), <i>PALAIOS</i> (2),
2006	8	<i>Annals of the Carnegie Museum</i> (1), <i>Annals of Missouri Botanical Gardens</i> (1), <i>Chemical Geology</i> (1), <i>Copeia</i> (1) <i>Earth and Planetary Science Letters</i> (1), <i>Geology</i> (1), <i>Palaeogeography</i> , <i>Palaeoclimatology</i> , <i>Palaeoecology</i> (1), <i>Paleobiology</i> (1), <i>University of Chicago Press</i> (1)
2005	6	<i>Earth and Planetary Science Letters</i> (1), <i>Geochimica et Cosmochimica Acta</i> (1), <i>Geology</i> (1), <i>Palaeogeography</i> , <i>Palaeoclimatology</i> , <i>Palaeoecology</i> (1), <i>Paleobiology</i> (1), <i>Quaternary Reviews</i> (1)
2004	6	<i>Earth and Planetary Science Letters</i> (1), <i>Geology</i> (1), <i>Journal of Vertebrate Paleontology</i> (1), <i>Paleobiology</i> (2), <i>Proceedings of the National Academy of Science, USA</i> (1)
2003	4	<i>Evolution</i> (1), <i>Geology</i> (1), <i>The Holocene</i> (1), <i>Journal of Biogeography</i> (1)
2002	5	<i>The Holocene</i> (1), <i>Journal of Vertebrate Paleontology</i> (1), <i>Palaeogeography</i> , <i>Palaeoclimatology</i> , <i>Palaeoecology</i> (1), <i>Paleobiology</i> (2)
2001	1	<i>Geochimica et Cosmochimica Acta</i> (1)
2000	3	<i>PALAIOS</i> (1), <i>Paleobiology</i> (2)

Service: Reviews of NSF proposals by year (27)

2015	2	Earth Sciences-Sedimentary Geology and Paleobiology (1), Earth Sciences-Instrumentation and Facilities (1)
2012	1	Earth Sciences-Sedimentary Geology and Paleobiology (1)
2011	2	Earth Sciences-Sedimentary Geology and Paleobiology (1), Earth Sciences-Instrumentation and Facilities (1)
2010	1	Earth Sciences-Sedimentary Geology and Paleobiology (1)
2009	4	Earth Sciences-Geobiology and Low-temperature Geochemistry (1), Earth Sciences-Instrumentation and Facilities (1), Earth Sciences-Sedimentary Geology and Paleobiology (1), Environmental Biology-Systematic Biology and Biodiversity Inventories (1)
2007	4	Earth Sciences-Instrumentation and Facilities (2), Earth Sciences-Sedimentary Geology and Paleobiology (2)
2006	2	Earth Sciences-Instrumentation and Facilities (2)
2005	3	Earth Sciences-Instrumentation and Facilities (2), Ocean Sciences-Marine Geology and Geophysics (1)
2003	6	Earth Sciences-Instrumentation and Facilities (3), Earth Sciences-Geology and Paleontology (2), Atmospheric Sciences-Paleoclimate (1)
2002	2	Earth Sciences-Geology and Paleontology (2)

Service: Reviews for other funding agencies by year (3)

2020	1	Deutsche Forschungsgemeinschaft (1)
2019	1	Swiss National Science Foundation (1)
2014	1	Leakey Foundation (1)

Service: reviews of book chapters and other publications (4)

2012	1	Chapter in Paleontological Society short course on paleoclimate
2006	1	Chapter in <i>The paleontology of Gran Barranca: evolution and environmental change through the Middle Cenozoic of Patagonia</i> . Editors: R. H. Madden, R.H., Vucetich, G.M., Carlini, A.A., and Kay, R.F.). Publisher: Cambridge University Press (in review).
2004	1	Chapter in <i>Primate Biogeography: Progress and Prospects</i> . Editors: Lehman, S.M. and Fleagle, J. Publisher: Springer (2006).
2002	1	Chapter in <i>Causes and of Globally Warm Climates in the Early Paleogene</i> . Geological Society of America Special Paper 369. Editors: Wing, S.L., Ginergich, P.D., Schmitz, B., and Thomas, E. Publisher: Geological Society of America (2003).

Courses taught

University of Minnesota (2001-present; number of students in parentheses)

S2021	ESCI 2202 Earth History (15), online synchronous
F2020	ESCI 1007 From Microbes to Mammoths (118), taught with Jake Bailey, online asynchronous ESCI 4103W Fossil Record and Evolution of Mammals (23), online synchronous
S2020	ESCI 2202 Earth History (13)
F2019	ESCI 1007 From Microbes to Mammoths (120), taught with Tina Loesekann ESCI 4102W Vertebrate Paleontology (19), taught with Pete Makovicky

S2019 ESCI 2202 Earth History (38)
 F2018 ESCI 1007 From Microbes to Mammoths (124), taught with Jake Bailey
 ESCI 4103W Fossil Record and Evolution of Mammals (9)
 Sm2018 ESCI 3911 Introductory Field Geology (27)
 S2018 ESCI 2202 Earth History (20)
 F2017 ESCI 1007 From Microbes to Mammoths (91), taught with Dan Jones
 ESCI 4102W Vertebrate Paleontology (7)
 Sm2017 ESCI 3911 Introductory Field Geology (15)
 S2016 ESCI 2202 Earth History (19)
 F2015 ESCI 1007 From Microbes to Mammoths (91)
 ESCI 4103W Fossil Record and Evolution of Mammals (8)
 S2015 ESCI 2202 Earth History (24)
 ESCI 4102W Vertebrate Paleontology (21)
 F2014 ESCI 1007 From Microbes to Mammoths (89), taught with Jake Bailey
 S2014 ESCI 2202 Earth History (29), ESCI 4103W Fossil Record and Evolution of
 Mammals (11)
 F2013 ESCI 1007 From Microbes to Mammoths (104), taught with Jake Bailey
 Sm2013 ESCI 3911 Introductory Field Geology (28)
 S2013 ESCI 2202 Earth History (29), ESCI 4102W Vertebrate Paleontology (13)
 F2012 ESCI 1007 From Microbes to Mammoths (124), taught with Jake Bailey
 S2012 ESCI 2202 Earth History (23)
 ESCI 4103W Fossil Record and Evolution of Mammals (17)
 F2011 ESCI 1007 From Microbes to Mammoths (108), taught with Jake Bailey
 S2011 ESCI 2202 Earth History (19)
 ESCI 4102W Vertebrate Paleontology (14)
 F2010 ESCI 1007 Geobiology (129), taught with Jake Bailey
 Sm2010 Geo 3911 Introductory Field Geology (18)
 Sm2009 Geo 3911 Introductory Field Geology (22)
 S2009 Geo 3890 Field Methods Workshop (21)
 Geo 4102W Vertebrate Paleontology (11)
 F2008 Geo 1002/1102 Earth History (45)
 Sm2007 Geo 3911 Introductory Field Geology (28)
 S2007 Geo 3890 Field Methods Workshop (29)
 Geo 4102 Vertebrate Paleontology (13)
 Geo 8980 Matters of Time (11)
 F2006 Geo 1002/1102 Earth History (65)
 Geo 8990 Stable Isotopes in Terrestrial Paleoecology (3)
 Sm2006 Geo 3911 Introductory Field Geology (21)
 S2006 Geo 3890 Field Methods Workshop (22)
 Geo 4103W Fossil Record and Evolution of Mammals (15)
 Sm2005 Geo 3911 Introductory Field Geology (24)
 S2005 Geo 3890 Field Methods Workshop (23)
 Geo 4093 Problems in Geology: Senior (3)
 Geo 4094 Senior Thesis (1)
 Geo 4102W Vertebrate Paleontology (9)
 Geo 8990 Structure and Stratigraphy of the North American Cordillera (5)

F2004	Geo 1002 Earth History (47)
Sm2004	Geo 3911 Introductory Field Geology (24)
S2004	Geo 3890 Field Methods Workshop (12)
	Geo 4103W Fossil Record and Evolution of Mammals (5)
F2003	Geo 1002 Earth History (51)
S2003	Geo 3093 Problems in Geology: Junior (1)
	Geo 4102W Vertebrate Paleontology (13)
	Geo 8990 Stable Isotopes in Paleoecological Research (12)
F2002	Geo 1002 Earth History (77)
S2002	Geo 1002 Earth History (45)
F2001	Geo 1901 Ice Age Extinctions (15)

Invited talks (57)

2020	(1)	Florida Museum of Natural History, Univ. of Florida
2017	(7)	Dept. of Earth Sciences, Univ. of Minnesota; Paleontology Research Group, Univ. of Cambridge; Museum of Zoology, Univ. of Cambridge; Dept. of Earth Sciences, Senckenberg Biodiversität und Klima Forschungszentrum BiK-F, Senckenberg Museum University College London; Bioarchaeology Seminar, School of Archaeology, Univ. of Oxford; Research Laboratory for Archaeology and the History of Art, School of Archaeology, Univ. of Oxford;
2016	(3)	Dept. of Earth Sciences, Univ. of Oxford; Paleontology Seminar, University of Michigan Museum of Paleontology, Univ. of Michigan; Dept. of Earth and Environmental Sciences, Univ. of Michigan
2015	(1)	Dept. of Human Evolutionary Biology, Harvard Univ.
2014	(1)	Dept. of Geology, Baylor Univ.
2012	(1)	Geological Society of Minnesota
2011	(3)	Archaeology Consortium, Dept. of Anthropology, Univ. of Minnesota; Dept. of Geology and Geophysics, Univ. of Minnesota; Dept. of Animal Biology, Univ. of Illinois at Urbana-Champaign
2010	(8)	Board on Earth Sciences and Resources, National Research Council of the National Academies, Roundtable on Earth System Science Education; Dept. of Geological Sciences, Brown Univ.; Dept. of Earth and Environmental Sciences, Wesleyan Univ.; Center for the Study of Global Change, Yale Institute for Biospheric Studies, Yale Univ.; Dept. of Anthropology, Yale Univ.; Yale Institute for Biospheric Studies, Yale Univ.; Dept. of Geology, Baylor Univ.; Dept. of Geosciences, Idaho State Univ.
2009	(1)	Dept. of Geology and Geophysics, Univ. of Utah
2008	(1)	Dept. of Earth and Planetary Sciences, Northwestern Univ.
2007	(5)	Dept. of Geology, Univ. of Toronto; Geological Society of Minnesota; River Connection: The University of Minnesota visits Grand Rapids, Grand Rapids Library; Dept. of Geology and Geophysics, Univ. of Wyoming; Dept. of Ecology and Evolutionary Biology, Brown Univ.
2006	(4)	Dept. of Earth Sciences, Syracuse Univ.; Stratigraphic Research Section, Kansas Geological Survey; Geological Society of America Annual Meeting Theme Session: The Terrestrial Eocene-Oligocene Boundary Revisited (Philadelphia, PA); Geological Society of America Annual Meeting Theme Session: Paleosols, Proxies, and Paleoenvironments (Philadelphia, PA)

- 2005 (2) Dept. of Geosciences, Univ. of Nebraska; Dept. of Geological Sciences, Univ. of Colorado at Boulder
- 2004 (1) Dept. of Geological Sciences, Univ. of Minnesota, Duluth
- 2003 (9) Dept. of Geological Sciences, Florida State Univ.; Dept. of Anthropology, Univ. of Minnesota; Bell Museum of Natural History, Univ. of Minnesota; Bill Clemens Retirement Symposium, Univ. of California, Berkeley; Archaeological Institute of America (Minnesota Society) and the Science Museum of Minnesota; Geological & Atmospheric Sciences, Iowa State Univ.; Dept. of Earth Science, Rice Univ.; Dept. of Geography, Univ. of Minnesota; Dept. of Ecology, Evolution, and Behavior, Univ. of Minnesota
- 2002 (1) Geological Society of America Annual Meeting Special Session: High Resolution Holocene Climate Records
- 2001 (2) Dept. of Geology, Univ. of California, Davis; Dept. of Geology, Univ. of North Dakota
- 2000 (3) Dept. of Geoscience, Univ. of Iowa; Dept. of Geology and Geophysics, Univ. of Minnesota; Dept. of Geological Sciences, Southern Methodist University
- 1999 (2) Dept. of Earth Sciences, Univ. of California, Santa Cruz; Dept. of the Geophysical Sciences, Univ. of Chicago
- 1998 (1) Anatomical Sciences, SUNY-Stonybrook

Papers submitted and in review (†alphabetical authorship, °UM undergraduate student author, *Fox graduate student author, §Fox postdoc author)

Peer reviewed journal papers accepted and in revision (†alphabetical authorship, °UM undergraduate student author, *Fox graduate student author, §Fox postdoc author)

Peer reviewed journal papers in press (†alphabetical authorship, °UM undergraduate student author, *Fox graduate student author, §Fox postdoc author)

Peer reviewed journal papers (†alphabetical authorship, °UM undergraduate student author, *Fox graduate student author, §Fox postdoc author)

57. Lukens, W.E. and **Fox, D.L.**, 2022. Paleovegetation and paleo-pedogenic properties from the upper Miocene Coffee Ranch fossil site in the North American Great Plains. *Palaeogeography, Palaeoclimatology, Palaeoecology*. doi.org/10.1016/j.palaeo.2021.110760
56. Martin, R.A., **Fox, D.L.**, Urevig, A., Dean, M.R.P., Rountrey, A.N., and Pelaez-Campomanes, P., 2021. Fluctuation of body mass in cotton rats and pocket gophers during the late Cenozoic in the Meade basin of Kansas: possible influence of the Huckleberry Ridge Ash-fall. *Historical Biology*. doi.org/10.1080/08912963.2021.1959576
55. Curran, S.C., Terhune, C., Croitor, R., Dragusin, V., **Fox, D.L.**, *Garrett, N., Ironside, L.B., Petculescu, A., Pobiner, B., Robinson, C., Robu, M., Tanau, I., Ungar, P., in press. Multiproxy paleoenvironmental reconstruction of early Pleistocene sites from the Oltet River Valley of Romania. *Palaeogeography, Palaeoclimatology, Palaeoecology* 574: 1104545. doi.org/10.1016/j.palaeo.2021.110445
54. *Whiting, E.T. and **Fox, D.L.**, 2021. Spatial patterns of species richness in extant North American squamate reptiles in relation to environmental gradients. *Journal of Biogeography* 48: 291-304. DOI: 10.1111/jbi.13996.

53. Michel, L.A., Lehmann, T., McNulty, K.P., Driese, S.G., Dunsworthy, H., **Fox, D.L.**, Harcourt-Smith, W.E., Jenkins, K., and Peppe, D.J., 2020. Sedimentological and paleoenvironmental study from Waregi Hill in the Hiwegi Formation (early Miocene) on Rusinga Island, Lake Victoria, Kenya. *Sedimentology* 67: 3567-3594. doi: 10.1111/sed.12762.
52. Hunda, B., Storrs, G., and **Fox, D.L.**, 2019. Notice of transfer of the University of Minnesota paleontology collections to Cincinnati Museum Center. *Journal of Paleontology* 93: 1031-1032.
51. *Haveles, A.W., **Fox, D.L.**, and Fox-Dobbs, K., 2019. Carbon isoscapes of rodent diets in the Great Plains USA deviate from regional gradients in C₄ grass abundance due to a preference for C₃ plant resources. *Palaeogeography, Palaeoclimatology, Palaeoecology* 527: 53-66.
50. Lukens, W.E., **Fox, D.L.**, Snell, K.E., Wiest, L.A., Layzell, A.L., Uno, K.T., Polissar, P.J., Martin, R.A., Fox-Dobbs, K., and Peláez-Campomanes, P., 2019. Pliocene paleoenvironments in the Meade Basin, southwest Kansas. *Journal of Sedimentary Research* 89: 416-439.
49. **Fox, D.L.**, Pau, S., Taylor, L., Strömberg, C.A.E., Osborne, C.P., Bradshaw, C., Conn, S., Beerling, D.J., and Still, C.J., 2018. Climatic controls on C₄ grassland distributions during the Neogene: a model-data comparison. *Frontiers in Ecology and Evolution* 8: 147 (19 pp.) doi: 10.3389/fevo.2018.00147.
48. *Maxbauer, D.P., Feinberg, J.M., **Fox, D.L.**, and Nater, E., 2017. Response of pedogenic magnetite to changing vegetation in soils developed under uniform climate, topography, and parent material. *Scientific Reports* 7:17575. DOI:10.1038/s41598-017-17722-2
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157. Peppe, D.J., Deino, A.L., McNulty, L.P., McCollum, M.S., Mitchell, A.L., Driese, S.G., Dunsworthy, H.M., **Fox, D.L.**, Harcourt-Smith, W.E.H., Jenkins, K., Lehmann, T., and 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 Annual Meeting.
156. *Nockerts, R.S., O'Malley, R.C., Wilson, M.L., and **Fox, D.L.**, 2017. Iostopic variability of chimpanzee vertebrate and invertebrate prey at Gombe National Park. American Association of Physical Anthropologists Annual Meeting.
155. Michel, L.A., McNulty, K.P., Lehmann, T., Novello, A., Driese, S.G., **Fox, D.L.**, *Garrett, N.D., and Peppe, D.J., 2017. Revisiting the Early Miocene paleoenvironments of Rusinga

- Island, Lake Victoria, Kenya based on paleosols and paleontological analyses. American Association of Physical Anthropologists Annual Meeting.
154. Curran, S.C., **Fox, D.L.**, *Garrett, N., Petculescu, A., Robinson, C., Robu, M., and Terhune, C.E., 2017. Characterizing early Pleistocene paleohabitats in Eastern Europe: results from four years of research in the Olteř River Valley of Romania. American Association of Physical Anthropologists Annual Meeting.
153. *Maxbauer, D.P., Feinberg, J.M., **Fox, D.L.**, and Nater, E.A., 2016. Magnetic minerals in soils across the forest-prairie ecotone in NW Minnesota. American Geophysical Union Fall Meeting.
152. *Birlenbach, D.M., and **Fox, D.L.**, 2016. A global perspective on the composition and diversity of multituberculates, plesiadapiformes, and rodents through the Paleocene and Early Eocene. Society of Vertebrate Paleontology Annual Meeting.
151. **Fox, D.L.**, Cicak, T.S., and Badgley, C., 2016. Ecological biogeography of modern North American rodents in relation to climate and physiography. Society of Vertebrate Paleontology Annual Meeting. Funding: NSF EAR-1338262.
150. **Fox, D.L.**, Fox-Dobbs, K., *Haveles, A.W., Lee, J.-E., Lukens, W., Martin, R.A., Polissar, P., Snell, K.E., and Uno, K., 2016. Plio-Pleistocene paleoenvironmental record of the Meade Basin, southwest Kansas. Geological Society of America Annual Meeting. Funding: NSF EAR-1338262.
149. Fox-Dobbs, K., *Haveles, A.W., "Richardson, H.K., Lauria, C.M., Snell, K.E., and **Fox, D.L.**, 2016. The influence of grazing on vegetation and soil organic matter in grasslands of southwestern Kansas and implications for using modern datasets to interpret paleosol records. Geological Society of America Annual Meeting. Funding: NSF EAR-1338262.
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147. Layzell, A.L., Ludvigson, G.A., and **Fox, D.L.**, 2016. Stable isotopic paleohydrology of pedogenic carbonate nodules from Pliocene paleosols in the Meade Basin, southwestern Kansas. Geological Society of America Annual Meeting. Funding: NSF EAR-1338262.
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145. Lukens, W.E., Lehmann, T., Kingston, J.D., **Fox, D.L.**, Deino, A.L., Peppe, D.J., and Driese, S.G., 2016. Early Miocene paleoenvironments near Karungu, Western Kenya. Geological Society of America Annual Meeting. Funding: BCS-1241807
144. *Maxbauer, D.P., Feinberg, D.M., and **Fox, D.L.**, 2016. Influence of vegetation and soil type on the magnetic properties of soils developed under uniform climate across the forest-prairie ecotone in nw minnesota: implications for climofunctions. Geological Society of America Annual Meeting.
143. "Richardson, H.K., *Haveles, A.W., **Fox, D.L.**, and Fox-Dobbs, K., 2016. Filling the gaps: a comprehensive understanding of diets and ecosystem interactions within the modern and fossil small mammal communities of Meade Basin, Kansas. Geological Society of America Annual Meeting. Funding: NSF EAR-1338262.

142. ^uKeller, J.S., Chrisfield, S.T., Cicak, T.S., McNulty, K.P., and **Fox, D.L.**, 2016. North American rodent tooth morphology reflects fine-scale ecology. American Society of Mammalogists Annual Meeting.
141. ^{*}Berini, J.L., Brockman, S., Hegeman, A., **Fox, D.L.**, Reich, P., Montgomery, R., and Forester, J., 2016. Increasing temperatures, forage chemistry, and diet composition in a declining moose population. American Society of Mammalogists Annual Meeting.
140. ^{*}Haveles, A.W., **Fox, D.L.**, Fox-Dobbs, K., 2016. Integration of stable isotope and stomach content analysis to infer diets of arid grassland rodents. American Society of Mammalogists Annual Meeting, 2016. Funding: NSF EAR-1338262.
139. **Fox, D.L.**, ^{*}Haveles, A.W., and ^uMunson, J., 2016. Stable isotope ecology of sympatric rodents in a mixed forest ecosystem in northern Michigan. American Society of Mammalogists Annual Meeting, 2016. Funding: NSF EAR-1338262.
138. ^{*}Maxbauer, D.P., Feinberg, J.M., **Fox, D.L.**, and Clyde, W.C., 2016. Weathering, diagenesis, and pedogenesis in Paleocene-Eocene paleosols from the Bighorn Basin, WY: evidence from environmental magnetism. European Geosciences Union General Assembly.
137. Fox-Dobbs, K., ^{*}Haveles, A.W., and **Fox, D.L.**, 2016. Same place, different times: Five million years of small mammal diet and environmental change in the Great Plains, USA. 10th International Conference on Applications of Stable Isotope Techniques to Ecological Studies (ISOECOL). Funding: NSF EAR-1338262.
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135. ^uRae, T.C., Nengo, I.O., Currano, E.D., Feibel, C., **Fox, D.L.**, and Miller, E.R., 2016. New palaeontological discoveries from the Middle Miocene site of Napudet, West Turkana, Kenya. American Association of Physical Anthropology Annual Meeting.
134. Snell, K.E., Fetrow, A., Burgess, C., **Fox, D.L.**, Lukens, W., Fox-Dobbs, K., Uno, K., Polissar, K., and Martin, R.A., 2015. Miocene-Pleistocene paleoclimate and paleoenvironment in the Meade Basin, Kansas. American Geophysical Union Fall Meeting, 2015. Funding: NSF EAR-1338262.
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131. **Fox, D.L.**, ^{*}Haveles, A.W., ^uKeller, J.S., and McNulty, K.P., 2015. Using isotopic, ecomorphometric, and biogeographic analyses of modern rodents as analogues for fossil rodent paleoecology. Geological Society of American Annual Meeting 2015. Funding: NSF EAR-1338262.
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- mice (Mammalia: Rodentia). Geological Society of American Annual Meeting 2015. Funding: NSF EAR-1338262.
128. Peppe, D., McNulty, K., Maclatchy, L., Rossie, J., Lehmann, T., Deino, A., Kingston, J., Driese, S., **Fox, D.L.**, Jenkins, K., and Lukens, W., 2015. Research on East African Catarrhine and Hominoid Evolution (REACHE): a regional approach to understanding early Miocene paleobiology and paleoenvironments. Geological Society of American Annual Meeting 2015.
 127. Uno, K.T., Polissar, P.J., Snell, K., Lukens, W., Fox-Dobbs, K., *Haveles, A.W., Martin, R.A., **Fox, D.L.**, 2015. Plant wax biomarkers in Late Neogene paleosols as archives of Great Plains vegetation. Geological Society of American Annual Meeting 2015. Funding: NSF EAR-1338262.
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 125. **Fox, D.L.**, ^oFemal, B., ^oFetrow, A., ^oRoepke, L., Fox-Dobbs, K., *Haveles, A.W., Martin, R.A., Polissar, P., Snell, K., and Uno, K., 2015. Paleoenvironmental framework of rodent community evolution in the Meade Basin (SW Kansas, USA) over the last 4.5 million years. Society of Vertebrate Paleontology Annual Meeting 2015. Funding: NSF EAR-1338262.
 124. *Garret, N.D., **Fox, D.L.**, McNulty, K.P., Michel, L., and Peppe, D.J., 2015. Early Miocene paleoenvironments of Rusinga Island, Kenya: new data from fossil mammalian tooth enamel stable isotope compositions (or implications for early hominoid evolution). Society of Vertebrate Paleontology Annual Meeting 2015.
 123. *Keller, J.S., Cicak, T.S., McNulty, K.P, and **Fox, D.L.**, 2015. 3D dental shape descriptors predict trophic categories across multiple orders of North American mammals. Society of Vertebrate Paleontology Annual Meeting 2015. Funding: NSF EAR-1338262.
 122. ^oLongar, A., McNulty, K.P., **Fox, D.L.**, ^oKeller, J.S., and Mitchell, J.N., 2015 Identifying pocket mice sister species using morphometric landmarks on the mandible. Society of Vertebrate Paleontology Annual Meeting 2015.
 121. McNulty, K.P., **Fox, D.L.**, ^oKeller, J.S., ^oTorgeson, J., and ^oLongar, A., 2015. Assessing the paleobiology of North American rodents using new approaches in geometric morphometric analysis. Society of Vertebrate Paleontology Annual Meeting 2015.
 120. ^oTerhune. C.E., Curran, S., **Fox, D.L.**, *Garrett, N., Hubbard, J., Perculescu, A., Robinson, C., Robu, M., and Stiuca, E., 2015. Paleoenvironmental conditions in early Pleistocene Romania: implications for hominin dispersals. Society of Vertebrate Paleontology Annual Meeting 2015.
 119. ^oTorgeson, J., McNulty, K.P., ^oKeller, J.S., **Fox, D.L.**, 2015. Exploring Rodent Head-Space: Geometric Morphometrics applied to Heteromyid Crania (Rodentia: Heteromyidae). Society of Vertebrate Paleontology Annual Meeting 2015. Funding: NSF EAR-1338262.
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 116. ^oKeller, J.S., Jansa, S.A., and **Fox, D.L.**, Dental ecomorphology and evolution of Malagasy rodents (Muroidea: Nesomyinae). American Society of Mammalogists Annual Meeting 2015. Funding: NSF EAR-1338262.

115. Tryon, C., Faith, J.T., Peppe, D., **Fox, D.L.**, Blegen, N., Beverly, E., Driese, S., Jacobs, Z., Li, B., Price, G., Joannes-Boyau, R., Sharp, W., Zaarur, S., Affek, H., Blumenthal, S., Chritz, K., *Garrett, N., Jenkins, K., Roure Johnson, C., Keegan, W., Patterson, D., and O'Brien, H., 2015. The Pleistocene prehistory of the Lake Victoria basin, Equatorial Africa. *The African Quaternary: Environments, Ecology, and Humans*.
114. *, ^pNockerts, R.S., Wilson, M.L., **Fox, D.L.**, Tappen, M., submitted. Sex-linked isotope patterns in a Kenyan population of olive baboons (*Papio anubis*). American Association of Physical Anthropology Annual Meeting, 2015.
113. McNulty, K.P., Nengo, I.O., **Fox, D.L.**, Stevens, N.J., Manthi, F.K., Mbuu, E.N., and Peppe, D.J., 2015. New partial cranium from an Early Miocene locality at Lower Kapurtoy. American Association of Physical Anthropology Annual Meeting, 2015.
112. ^uKeller, K.S., Jansa, S.A., and **Fox, D.L.**, 2015. Dental divergence of Nesomyine rodents from the murine developmental model. Society for Integrative and Comparative Biology Annual Meeting, 2015. Funding: NSF EAR-1338262.
111. ^uFemal, B., Uno, K., Pollisar, P., Fox-Dobbs, K., Snell, K., **Fox, D.L.**, and Martin, R.A., 2014. Reconstructing vegetation and hydrological changes from biomarkers in modern soils and late Neogene paleosols, Meade Basin, KS, USA. American Geophysical Union Fall Meeting, 2014. Funding: NSF EAR-1338262.
110. ^p**Fox, D.L.**, Strömberg, C.A.E., Pau, S., Taylor, L., Lehmann, C., Osborne, C., Beerling, D., Still, C., and The C₄ Grasslands Working Group, 2014. Using vegetation model-to-data comparisons to test the role of abiotic factors in the Neogene spread of C₄ grasslands. American Geophysical Union Fall Meeting, 2014.
109. ^pMatson, S.D., Gibert, L., Scott, G.R., **Fox, D.L.**, 2014. Plio-Pleistocene continental paleoclimate record from the Zújar section, Guadix-Baza Basin (SE Spain). American Geophysical Union Fall Meeting, 2014.
108. ^pMaxbauer, D.P., **Fox, D.L.**, Feinberg, J.M., and Clyde, W.C., 2014. Impact of surficial weathering on the magnetic properties of paleosols: a core to outcrop comparison from the Bighorn Basin, WY. American Geophysical Union Fall Meeting, 2014.
107. Snell, K., Eiler, J., Wernicke, B., Peppe, D., ^uFetrow, A., **Fox, D.L.**, Passey, B., 2014. Disentangling topographic and climatic changes during the Late Cretaceous through Cenozoic in the Western US Cordillera. American Geophysical Union Fall Meeting, 2014. Funding: NSF EAR-1338262.
106. ^uFetrow, A.C., **Fox, D.L.**, Fox-Dobbs, K., Haveles, A.W., Martin, R.A., Polissar, P., Snell, K., and Uno, K., 2014. Temperature changes and Great Plains ecosystem evolution during the Miocene to the Holocene in the Meade Basin, Kansas. Geological Society of America Annual Meeting, 2014. Funding: NSF EAR-1338262.
105. Fox-Dobbs, K., Snell, K., **Fox, D.L.**, Haveles, A.W., Martin, R.A., Polissar, P., Uno, K., and Feinberg, J., 2014. The past 4.5 million years of small mammal evolution in the Great Plains: a multi-proxy approach to testing the relative roles of biotic and environmental factors. Geological Society of America Annual Meeting, 2014. Funding: NSF EAR-1338262.
104. *Haveles, A.W., **Fox, D.L.**, Fox-Dobbs, K., 2014. Implications of carbon isotopic variability in modern rodents in the Great Plains, USA for interpreting diets of fossil rodents. Geological Society of America Annual Meeting, 2014. Funding: NSF EAR-1338262.
103. ^uKeller, J.S., **Fox, D.L.**, McNulty, K., 2014. Dental ecometrics estimate high resolution trophic categories of North American rodents. Geological Society of America Annual

- Meeting, 2014. Funding: NSF EAR-1338262.
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 101. ^uRoepke, E., Feinberg, J., **Fox, D.L.**, Fox-Dobbs, K., Polissar, P., Snell, K., Uno, K., and Martin, R.A., 2014. Neogene to recent paleoprecipitation estimates in the Meade Basin, southwest Kansas, from elemental ratios and rock magnetic properties in paleosols and modern soils. Geological Society of America Annual Meeting, 2014. Funding: NSF EAR-1338262.
 100. ^u**Fox, D.L.**, ^uKeller, J.S., and McNulty, K., 2014. Rodent tooth shapes as ecometric traits: predicting trophic categories of rodents from 3D tooth morphology. Society of Vertebrate Paleontology Annual Meeting. Funding: NSF EAR-1338262.
 99. ^{*}Haveles, A.W., **Fox, D.L.**, and Fox-Dobbs, K., 2014. Characterizing isotopic variability of rodents on local and regional scales in central North America: implications for reconstructing paleodiets and habitats. Society of Vertebrate Paleontology Annual Meeting. Funding: NSF EAR-1338262.
 98. **Fox, D.L.** and ^{*}Haveles, A.W., 2014. Carbon isotopes in rodent ecology and paleoecology. North American Paleontological Convention. Funding: NSF EAR-1338262.
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 96. **Fox, D.L.**, ^uKeller, J.S., ^{*}Haveles, A.W., and Bagley, B., 2013. Dietary reconstruction of Plio-Pleistocene rodents from southwest Kansas using stable carbon isotopes and three dimensional tooth shape metrics. Society of Vertebrate Paleontology Annual Meeting.
 95. ^{*}Garrett, N.D., **Fox, D.L.**, Tryon, C.A., Faith, J.T., and Peppe, D.J., 2013. Stable isotopic paleoenvironmental reconstruction of the late Pleistocene sites on Rusinga and Mfangano Islands, Lake Victoria, Kenya. Society of Vertebrate Paleontology Annual Meeting.
 94. ^u^{*}Haveles, A.W. and Fox, D.L., 2013. Reconstructing Quaternary paleoclimate in the Great Plains using geographic ranges of extant species. Society of Vertebrate Paleontology Annual Meeting.
 93. ^u^{*}Keller, J.S., **Fox, D.L.**, and Badgley, B., 2013. Dental Morphometrics Predict Specific Trophic Categories in Rodents. Society of Vertebrate Paleontology Annual Meeting.
 92. ^{*}Berini, J., Forester, J., **Fox, D.L.**, and Moen, R., 2013. Forage-selection and dietary quality of moose in northeastern Minnesota. Minnesota Wildlife Society Annual Meeting.
 91. ^u^{*}Haveles, A.W., **Fox, D.L.**, [†]Talmadge, K.A., and Fox-Dobbs, K., 2013. Characterizing isotopic variability of primary production and small mammals and the implications for reconstructing paleodiets over the last 5 Myr. Ecological Society of America Annual Meeting, Minneapolis, MN.
 90. Tryon, C., Faith, J.T., Peppe, D., Blegen, N., Beverly, E., Patterson, D., Jacobs, Z., Joannes-Boyau, R., **Fox, D.L.**, Nightingale, S., Laird, M., Jenkins, K., Johnson, C.R., and ^{*}Garrett, N., 2013. Pleistocene archaeology and paleoenvironments of the Lake Victoria basin in Kenya. Paleoanthropology Society Annual Meeting.
 89. ^{*}Haveles, A.W., Fox-Dobbs, K., [†]Talmadge, K.A., ^uFetrow, A., and **Fox, D.L.**, 2012. Characterizing isotopic variability of primary production and consumers in Great Plains ecosystems during protracted regional drought. AGU Annual Meeting.

88. Henderson, A.K., Graham, H.V., Freeman, K.H, and **Fox, D.L.**, 2012. Angiosperm *n*-alkane distribution patterns and the geologic record of C₄ grassland evolution. AGU Annual Meeting.
87. *Haveles, A.W., †Talmadge, K.A., **Fox, D.L.**, and Fox-Dobbs, K., 2012. Dietary reconstructions of modern and fossil small mammals in a grassland ecosystem of southwestern Kansas. GSA Annual Meeting.
86. *Morón, S., Feinberg, J.M., Foreman, B.Z., Baczynski, A., and **Fox, D.L.**, 2012. Accounting for siderite in paleosols and its effect on the reproducibility of δ¹³C records. GSA Annual Meeting.
85. †Henderson, A., Freeman, K., and **Fox, D.L.**, 2011. The rise of C₄ grassland ecosystems, a climate puzzle. American Geophysical Union Annual Meeting, San Francisco, CA.
84. †**Fox, D.L.** and Marcot, J.D., 2011. Comparing climate change and mammalian taxonomic richness in the Neogene of the Great Plains, USA. Society of Vertebrate Paleontology Annual Meeting, Las Vegas, NV.
83. *†Haveles, A.W. and **Fox, D.L.**, 2011. Isotopic reconstruction of modern small mammal diets and implication for understanding the evolution of the C₄-dominated grassland of the Great Plains. Society of Vertebrate Paleontology Annual Meeting, Las Vegas, NV.
82. *Matson, S.D., Rook, L., Oms, O., and **Fox, D.L.**, 2011. Carbon isotopic record of the relative roles of biotic and abiotic factors in the late Miocene extinction of *Oreopithecus bambolii*, Baccinello Basin, Tuscany. Society of Vertebrate Paleontology Annual Meeting, Las Vegas, NV.
81. Fox-Dobbs, K., *Haveles, A.W., and **Fox, D.L.**, 2011. How faithfully do small mammals record C₄ grass abundance in grassland ecosystems? Isotopic insight from modern and fossil communities. Geological Society of America Annual Meeting, Minneapolis, MN.
80. *†Haveles, A.W. and **Fox, D.L.**, 2011. Reconstructing Late Cenozoic paleoenvironments in the Great Plains using overlapping geographic ranges of modern species. Geological Society of America Annual Meeting, Minneapolis, MN.
79. Henderson, A., Freeman, K, and **Fox, D.L.**, 2011. The role of trees in the evolution of C₄ grassland ecosystems in North America, a molecular perspective. Geological Society of America Annual Meeting, Minneapolis, MN.
78. *Matson, S.D., Gibert, L., Scott, G.R., and **Fox, D.L.**, 2011. Wet climate in southwest Spain during the Messinian Salinity Crisis. Geological Society of America Annual Meeting, Minneapolis, MN.
77. *Morón, S., **Fox, D.L.**, Turner B., Jaramillo, C., Montes, C., and Bloch, J., 2011. Geochemical indexes from soils to establish paleoprecipitation under tropical conditions. Geological Society of America Annual Meeting, Minneapolis, MN.
76. *Morón, S., **Fox, D.L.**, Feinberg, J.M., Bayona, G., and Jaramillo, C., 2011. Paleosol carbon isotope stratigraphy and a rock magnetic record of climate change across the Paleocene-Eocene boundary in the Bogota Basin, Colombia. Geological Society of America Annual Meeting, Minneapolis, MN.
75. Peppe, D.J., Faith, J.T., Tryon, C., **Fox, D.L.**, *Garrett, N.D., Van Plantinga, A., Keegan, W., Nightinglae, S., Ogondo, J., and Zaarur, S., 2011. Terrestrial evidence for late

- Quaternary lake level changes from the Lake Victoria basin, Equatorial Africa. Geological Society of America Annual Meeting, Minneapolis, MN.
74. *Ochiagha, C., **Fox, D.L.**, and Badgley, C., 2011. Ecological biogeography of modern African mammals in relation to climate and topography. Geological Society of America Annual Meeting, Minneapolis, MN.
 73. 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 Association of Physical Anthropology Annual Meeting, Minneapolis, MN.
 72. Tryon, C.A., Faith, J.T., Peppe, D.J., van Plantinga, A., **Fox, D.L.**, Garrett, N.D., Keegan, W.F., and Ogondo, J.A., 2011. Middle Stone Age hominin occupation of arid environments in the Lake Victoria basin: New evidence from Rusinga and Mfangano Islands, Kenya. Paleoanthropology Society Annual Meeting, Minneapolis, MN.
 71. **Fox, D.L.** and *Rose, P.J., 2010. Unusual mammalian biogeography in western North America during the Paleocene evolutionary radiation of mammals. American Geophysical Union Annual Meeting, San Francisco, CA.
 70. **Fox, D.L.**, 2010. Long-term stable isotopic record of Cenozoic paleoenvironments in the Great Plains based on pedogenic and sedimentary carbonates. Geological Society of America Annual Meeting, Denver, CO.
 69. Marcot, J.D. and **Fox, D.L.**, 2010. Latitudinal diversity gradient of North American mammals was not constant over the Cenozoic.
 68. *Rose, P.J. and **Fox, D.L.**, 2010. Bergmann's rule in deep time: does the relationship between mammalian body size and temperature apply to Paleocene mammals? Society of Vertebrate Paleontology Annual Meeting, Pittsburgh, PA.
 67. *Garrett, N.D., **Fox, D.L.**, McNulty, K.P., Tryon, C.A., and Peppe, D.J., 2010. Isotope paleoecology of the Pleistocene Wasiriya Beds of Rusinga Island, Kenya. Society of Vertebrate Paleontology Annual Meeting, Pittsburgh, PA.
 66. *Vietti, L.A., **Fox, D.L.**, and Rogers, R., 2010. Preliminary designation of marine tetrapod taphofacies. Society of Vertebrate Paleontology Annual Meeting, Pittsburgh, PA.
 65. Fox, D.L., 2010. Reconstruction of small mammal diets during the Neogene expansion of C₄ grasses in the Great Plains using LA-IRMS. Society of Vertebrate Paleontology Annual Meeting, Pittsburgh, PA.
 64. **Fox, D.L.**, 2010. Origin of the grassland ecosystem in the Great Plains: C₄ grass biomass, ecosystem structure, and climate over the last 12 million years. Ecological Society of America Annual Meeting, Pittsburgh, PA.
 63. Tryon, C., Faith, J.T., Peppe, D.J., **Fox, D.L.**, McNulty, K.P., Holt Jenkins, K., *Garrett, N., Dunsworth, H., and Harcourt-Smith, W. Paleoenvironmental context for Middle Stone Age hominins in Equatorial Africa: The Pleistocene Wasiriya Beds of Rusinga Island (Kenya). Paleoanthropology Society Annual Meeting.
 62. Fisher, D., Rountry, A., Smith, K., and **Fox, D.**, 2010. Stable isotope time series and dentin increments elucidate Pleistocene proboscidean paleobiology. European Geophysical Union Annual Meeting.

61. **Fox, D.L.**, Peppe, D.J., McNulty, K.P., Harcourt-Smith, W.E.H., Dunsworth, H.M., Deino, A.L., Lehmann, T., Andrews, A., 2009. Geochronology, stratigraphy, and paleoenvironments of Early Miocene vertebrate faunas from Mfangano and Rusinga Islands, eastern Lake Victoria, Kenya. Geological Society of America Annual Meeting, Portland, OR.
60. *Chang, L., **Fox, D.L.**, and Badgley, C., 2009. Biogeography of extant North American mammals: spatial turnover in relation to climatic and physiographic variables. Geological Society of America Annual Meeting, Portland, OR.
59. Andrews, A.L., Peppe, D.J., McNulty, K.P., Harcourt-Smith, W.E.H., Dunsworth, H., Deino, A.L., and **Fox, D.L.**, 2009. Magnetostratigraphy of the Early Miocene Kulu and Hiwegi Formations on Rusinga Island (Lake Victoria, Kenya). Geological Society of America Annual Meeting, Portland, OR.
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55. [¶]**Fox, D.L.**, McNulty, K., *Thomas, A, Head, J.J., 2009. Comparison of cranial and mandibular shape in Theropoda (Dinosauria) and Carnivora (Mammalia) using 2-D outline morphometrics. Society of Vertebrate Paleontology Annual Meeting, Bristol, U.K.
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44. Fisher, D., Rountrey, A., Beld, S., **Fox, D.L.**, Gohman, S., Tikhonov, A., Mol, D., Buigues, B., Boeskorov, G., and Lazarev, P., 2007. Life history of the Yukagir mammoth. 4th International Mammoth Conference, Yakutsk.
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28. *Matson, S.D. and **Fox, D.L.**, 2005. Can fossil turtle bone apatite be used to reconstruct paleoclimates? *Geochimica et Cosmochimica Acta* 69(10) Suppl. 1: 71.
27. **Fox, D.L.**, Martin, R.A., Honey, J.G., and Pelaez-Campomanes, P., 2004. Paleoenvironmental context of Late Cenozoic mammalian community evolution in the central Great Plains, U.S.A. *Journal of Vertebrate Paleontology* 24(suppl. 3): 60A.
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20. **Fox, D.L.** and Revenaugh, J., 2002. Annual range of temperature and intra-sample time averaging in high-resolution geochemical records of paleotemperature. Geological Society of America. *Abs. Progs.*
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18. **Fox, D.L.**, Fisher, D.C., Mol, D., and Buigues, B. 2001. Stable isotope ecology of late Pleistocene *Mammuthus* from the Taimir Peninsula, Siberia. *Journal of Vertebrate Paleontology* 21(suppl. 3): 51A.
17. Badgley, C. and **Fox, D.L.**, 2001. Databases for Recent mammals and mammalian faunas. *PaleoBios* 21(suppl. 2).
16. **Fox, D.L.**, 2001. Cladistics and stratocladistics: does the value of fossils in phylogenetic estimation depend on tree shape? Annual meeting of the Society of Systematic Biologists, Society for the Study of Evolution, and the Society of American Naturalists (abstract not published).
15. Fox, D.L. and Koch, P.L., 2001. Carbon isotopes and high C₄ biomass during the Miocene in the Great Plains. *PaleoBios* 21(suppl. 2).
14. **Fox, D.L.** and Koch, P.L. 2000. Carbon isotope composition of Miocene paleosol carbonates from the Great Plains, U.S.A. Geological Society of America. *Abs. Progs.*
13. **Fox, D.L.** and Fisher, D.C. 2000. Dietary reconstruction of *Gomphotherium* (Mammalia, Proboscidea) based on the carbon isotope composition of tusk enamel. *Journal of Vertebrate Paleontology* 20(suppl. 3): 42A.
12. **Fox, D.L.** and Fisher, D.C. 1999. Continental climate change in North America during the Miocene based on the oxygen isotope composition of proboscidean tusks. Geological Society of America. *Abs. Progs.*
11. **Fox, D.L.** and Fisher, D.C. 1999. Tree balance, evolutionary models, and the completeness of the fossil record. *Journal of Vertebrate Paleontology* 19(suppl. 3): 45A.
10. **Fox, D.L.** and Fisher, D.C. 1998. Stable isotope ecology of late Miocene proboscideans in North America. *Journal of Vertebrate Paleontology* 18(suppl. 3): 43A.
9. Fisher, D.C. and **Fox, D.L.** 1998. Oxygen isotopes in mammoth teeth: sample design, mineralization patterns, and enamel-dentin comparisons. *Journal of Vertebrate Paleontology* 18(suppl. 3): 41A.
8. **Fox, D.L.** 1997. Stable isotope ecology of proboscideans from Port of Entry Pit, OK (late Miocene): diet, climate and diagenesis. Geological Society of America. *Abs. Progs.* 29(4): 463
7. **Fox, D.L.**, Fisher, D.C. and Leighton, L.R. 1997. Comparison of stratocladistics and cladistics using simulated evolutionary histories. *Journal of Vertebrate Paleontology* 17(suppl. 3): 47A.

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5. **Fox, D.L.** and Fisher, D.C. 1996. Oxygen isotope variation in proboscidean tusks: comparison of Miocene and Pleistocene material. *Journal of Vertebrate Paleontology* 16(suppl. 3): 34A.
4. Badgley, C. and **Fox, D.L.** 1996. Ecological structure of North American mammalian faunas in relation to climate. *Ecological Society of America. Abs. Progs.* 77(3): 21.
3. **Fox, D.L.** 1995. Incremental growth in *Gomphotherium* tusks. *Journal of Vertebrate Paleontology* 15(suppl. 3): 30A.
2. Badgley, C., **Fox, D.L.** and Farber, L. 1994. Ecological structure of North American mammalian faunas in relation to climate and geography. *Journal of Vertebrate Paleontology* 14(suppl. 3): 15A.
1. **Fox, D.L.** and Fisher, D.C. 1994. Tusk growth in *Loxodonta africana* as recorded by incremental laminae in tusk dentin. *Journal of Vertebrate Paleontology* 14(suppl. 3): 26A.

Students advised

PhD

Current: Francesca Socki (S2021-present), Nora Loughlin (F2018-present), Evan Whiting (F2016-present), David Birlenbach (F2014-present)

Rebecca Slepkov Nockerts (Anthropology. F2012-F2019, co-advised with Mike Wilson, Dept. of Anthropology): Stable Isotope Ecology of Gombe National Park: A Modern Analogue for Fossil Hominins

Dan Maxbauer (F2013-S2017; co-advised with Josh Feinberg, Dept. of Earth Sciences): Magnetic Minerals in Soils and Paleosols as Recorders of Paleoclimate. Currently visiting lecturer, Carleton College, Northfield, MN.

Niki Garrett (Anthropology, F2009- 2016; co-advised with Kieran McNulty, Dept. of Anthropology): Stable isotope paleoenvironmental reconstructions of the Early Miocene and Late Pleistocene deposits on Rusinga and Mfangano Islands, Lake Victoria, Kenya.

Andrew Haveles (F2009-S2015): Ecology and Chemistry of Modern Small Mammals: Implications for Interpreting the Small Mammal Fossil Record. Currently Science Education Resource Center at Carleton College, Northfield, MN.

Laura Vietti (F2008-Sm2014; co-advised with Ray Rogers, Macalester College, St. Paul, MN and Jake Bailey, Dept. of Earth Sciences): Insights into the microbial degradation of bones from the marine vertebrate fossil record: an experimental approach using interdisciplinary analyses. Currently Collections Manager, Geology Museum and Department of Geology and Geophysics, University of Wyoming, Laramie WY.

Peter Rose (F2004-Sm2010): Paleoclimate and Mammal Paleocology During the Paleocene of North America: Insights from Stable Isotopes. Currently Geologist, Minerals Management, Michigan Department of Natural Resources, Lansing, MI.

Sam Matson (F2004-S2010): Stable Isotopic Investigation of Late Neogene Terrestrial Paleocology and Paleoclimate of the Circum-Mediterranean Region.

Wes Rutelonis (F2014-S2017, co-advised with Mike Berndt, Minnesota Department of Natural Resources): Linking Riparian Flow-Concentration Integration Modeling and HSPF to Predict Background Methylmercury Concentrations in Northeastern Minnesota Streams. Currently Minnesota Department of Natural Resources.

Sara Eugenia Morón (F2009-F2011): Paleosol carbon isotope stratigraphy, major oxides and rock magnetic record of climate change across the Paleocene-Eocene boundary in the Bogota Basin, Colombia. Complete Ph.D. at the University of Adelaide, 2018. Currently post-doctoral researcher in the School of Earth Sciences, University of Melbourne.

Chiji Ochiagha (F2009-F2011, Plan B): Ecological Biogeography of African Mammals in Relation to Climate and Physiography.

Stacy Gohman (F2005-F2008): Vegetation change and the extinction of the woolly mammoth (*Mammuthus primigenius*) in eastern Siberia.

Rhonda Friberg (F2004-S2006): Macroecology of Mammals: An Analysis of Vegetation Composition as an Explanation for Patterns of Species Richness of Mammals in North America.

Sam Matson (F2002-S2004): Evaluation of the Use of Stable Isotopes From Turtles, Crocodylians, and Fish to Understand Paleoclimates: An Example From the Paleocene-Eocene of the Clarks Fork Basin, Wyoming.

BS/BA

Kirsten Meltesen (EEB, S2019-S2021); Hayley Orlowski (Earth Sciences, F2018-S2021); Jenny Huang (Earth Sciences, S2018-S2021), Andrew Urevig (ICP, F2015-F2018), Alexi Besser (Earth Sciences and EEB, F2014-S2017, currently Ph.D. student, Dept. of Biology, University of New Mexico), Anne Longar Kort (Earth Sciences, F2014-S2016, currently M.S. student, Dept. of Earth and Atmospheric Sciences, Indiana University), John Munson (F2013-S2015, completed M.S., 2019, Dept. of Earth Sciences, University of California, Santa Barbara), An An Hua (Earth Sciences, F2013-S2014), Joel Torgeson (Anthropology, F2013-present), Anessa Demers (F2013-S2017, currently Ph.D. student, Dept. of Evolution, Ecology, and Organismal Biology, The Ohio State University), Jack Mitchell (Earth Sciences, F2013-S2014, completed M.S., Dept. of Earth Sciences, University of California, Santa Barbara, 2016), Jonathan Keller (EEB, S2012-S2016, currently Ph.D. student, Dept. of Biology, University of New Mexico), Joel Cramblit (Anthropology, F2011-S2012), Silvia Ascari (Earth Sciences, F2011-S2013, currently Ph.D. student, Dept. of Earth and Atmospheric Sciences, Indiana University), Jason Dally (Geology and Geophysics, 2008-2009), Andrew Thomas (EEB, S2005-F2007), Matt Sauter (Geology and Geophysics, F2004-S2005).

Postdocs advised

Jonathan Marcot (2004-2006), currently Assistant Professor, Department of Animal Biology, University of Illinois

Thesis committees

Earth Sciences/Geology and Geophysics

MS: Abigail Williams (2015), Palmer Fliss (2014), Cindy Frickle (2014), Eric Stevens (2013), Eric Smith (2005), Sara Mueller (2004)

PhD: Chris Crosby (2016), Paul McKinney (2015), Dylan Blumentritt (2013), Chris Crosby (2010-present), Melissa Berke (UMD, 2011), Robert Dietz (2010-present), Anna Henderson (2010), Sushmita Ray (2008), Avery Cook-Shinneman (2008), Laura Triplett (2007)

Anthropology

Abbey Hall (Ph.D., F2018-present), Risa Luther (Ph.D., F2018-present), Emily Briggs (Ph.D., 2017-present), Tessa Cicak (Ph.D., 2016-present), Samuel Muteti (Ph.D., 2015-present), Rutger Jansma (Ph.D., 2014-2019), Jason Massey (Ph.D., 2009-2019), Kirsten Jenkins (Ph.D., 2009-2018), Sabrina Curran (Ph.D., 2009)

Conservation Biology

Josh Egan (Ph.D., 2012-2019), Peter Hundt (Ph.D., 2011-2016), John Berini (Ph.D., 2011-2019),

Ecology, Evolution, and Behavior

Dakota Rowsey (Ph.D., 2014-2019), Vincent Hirt (Ph.D., 2011-2015)

Geography

Anna Henderson, (Ph.D., 2010)

History

Jamie Stephenson, (Ph.D., 2010)

PhD Preliminary Examination committees (O, oral; W, written)

Earth & Environmental Sciences (and Earth Sciences and Geology and Geophysics)

Julie Drierbwegrn (W: 2019), Jacob Zahn (O: 2018), Dalton Leprich (W: 2018), Chris Crosby (W: 2011), Allison Burnett (O: 2009, W: 2008), Xiaoting Sun (O: 2009, W: 2008), Melissa Berke (O: 2009, W: 2007, UMD), Dylan Blumentritt (O: 2008, W: 2007), Brooke White (W: 2007), Anna Henderson (W: 2006), Carolyn Dykoski (W: 2005), Avery Cook-Shinneman (O: 2006, W: 2005), Laura Triplett (W: 2004), Megan Kelly (W: 2003), Sushmita Ray (O: 2004, W: 2003)

Anthropology (written only)

Rutger Jansma (2015), Jason Massey (2013), Aaron Armstrong (2009), Sabrina Curran (2006), Alexandra Moyer (2005)