

PETER S. UNGAR

EVOLUTIONARY ECOLOGIST AND PALEOANTHROPOLOGIST

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PROFILE

I serve as Distinguished Professor of Anthropology and Director of Environmental Dynamics at the University of Arkansas. I am a member of the National Academy of Sciences and the American Academy of Arts and Sciences, and a Fellow of the American Association for the Advancement of Science. My research focuses on the ecology of animals of the past and present, from extinct human ancestors to extant Arctic mammals.

RESEARCH INTERESTS

Evolution of human diet, human origins, evolutionary perspectives on human oral health, mammalian paleoecology, mammalian dental functional anatomy, dental microwear, feeding ecology of living primates, mammalian community ecology, paleontological applications of Geographic Information Systems, dental biotribology and surface metrology, ecosystem dynamics, Arctic climate change.

EMPLOYMENT AND TITLES

	University of Arkansas	Fayetteville, AR
2016-	<i>Director.</i> Environmental Dynamics PhD Program. Graduate School and International education.	
2010-	<i>Distinguished Professor.</i> Department of Anthropology. J. William Fulbright College of Arts and Sciences.	
1998-	<i>Core Faculty.</i> Environmental Dynamics PhD Program. Graduate school and international education.	
2008-2016	<i>Departmental Chairperson.</i> Department of Anthropology. J. William Fulbright College of Arts and Sciences, The University of Arkansas.	
2003-2010	<i>Professor.</i> Department of Anthropology. J. William Fulbright College of Arts and Sciences, The University of Arkansas.	
1999-2003	<i>Associate Professor.</i> Department of Anthropology. J. William Fulbright College of Arts and Sciences, The University of Arkansas.	

1995-1999 *Assistant Professor.* Department of Anthropology. J. William Fulbright College of Arts and Sciences, The University of Arkansas.

University of the Witwatersrand
Africa

Johannesburg, South

2021-2023 *Honorary Research Fellow.* Centre for the Exploration of the Deep Human Journey.

2014-2021 *Research Affiliate.* Evolutionary Studies Institute.

2001-2014 *Honorary Research Fellow.* Institute of Human Evolution.

University of Helsinki

Helsinki, Finland

2012 *Visiting Faculty Instructor.* Department of Geosciences and Geography.

Flinders University

Adelaide, Australia

2011 *Honorary Visiting Professor.* School of Biological Sciences.

East Tennessee State University

Johnson City, TN

2010-2012 *Research Associate.* The Don Sundquist Center of Excellence in Paleontology.

Duke University

Durham, NC

1993-1995 *Research Associate.* Department of Biological Anthropology and Anatomy. Duke University School of Medicine.

Johns Hopkins University

Baltimore, MD

1992-1993 *Postdoctoral Fellow.* Department of Cell Biology and Anatomy. The Johns Hopkins University School of Medicine.

EDUCATION

Stony Brook University (State University of New York)

Stony Brook, NY

PhD. Anthropological Sciences

1992

Stony Brook University (State University of New York)

Stony Brook, NY

MA. Anthropology

1989

RESEARCH EXPERIENCE

Museum research

1988-

American Museum of Natural History (New York), US National Museum of Natural History, Smithsonian Institution (Washington, DC), Academy of Natural Sciences (Philadelphia, Pennsylvania), Natur-Museum Senkenberg (Frankfort, Germany), Zoologische Staatssammlung (Munich, Germany), Rijksmuseum van Natuurlijke Historie (Leiden, The Netherlands), Institut Royal des Sciences Naturelle de Belgique (Brussels, Belgium), Museum Zoologicum Bogoriense (Bogor, Indonesia), Institute Paleontologic Dr. M. Crusafont (Sabadell, Spain), Naturhistorisches Museum Wien (Vienna, Austria), Magyar Geologiai Szolgalat (Budapest, Hungary), Μουσείο Γεωλογίας – Παλαιοντολογίας, Αριστοτελείου Πανεπιστημίου Θεσσαλονίκης (Thessaloniki, Greece), Landesmuseum Joanneum Graz (Graz, Austria), Naturhistorisches Museum Basel (Basel, Switzerland), Anthropologisches Institut und Museum der Universität Zürich-Irchel (Zurich, Switzerland), Kenya National Museums (Nairobi, Kenya), University of the Witwatersrand Department of Anatomy (Johannesburg, South Africa), Bernard Price Institute (Johannesburg, South Africa), Magyar Nemzeti Múzeum (Budapest, Hungary), ብሔረ-ጤና ሚኒስቴር (Addis Ababa, Ethiopia), Ditsong Museum of Natural History (Pretoria, South Africa), Cleveland Museum of Natural History (Cleveland, Ohio), Koninklijk Museum voor Midden-Afrika (Tervuren, Belgium), Peabody Museum of Anthropology (Cambridge, Massachusetts), Museum of Comparative Zoology (Cambridge, Massachusetts), Staatssammlung für Anthropologie und Paläoanatomie München (Munich, Germany), Florida State Museum of Natural History, Royal Tyrrell Museum (Drumheller, Alberta, Canada), IZIKO South African Museum (Cape Town, South Africa), University of Minnesota Anthropology Collections (Minneapolis, Minnesota), Staatliches Museum für Naturkunde (Karlsruhe, Germany), University of Arkansas Museum Collections (Fayetteville, Arkansas), Flinders University Paleontological Collections (Adelaide, Australia), Museu Paraense Emilio Goeldi (Belem, Brazil), The National Museum (Bloemfontein, South Africa), Biogéosciences, Université de Bourgogne (Dijon, France), Арктическая исследовательская станция (Labytnangi, Russia), Luonnonvarakeskus (Inari, Finland), Turkana Basin Institute (Turkwel, Kenya), Náttúrufræðistofnun Íslands (Garðabær, Iceland), Magyar Természettudományi Múzeum (Budapest, Hungary), SZTFH Földtani Igazgatóság, Gyűjteményi Osztály (Budapest, Hungary).

Computer software development

1989-2005

Image analysis software development as a student intern at IBM Thomas J. Watson Research Center and guest student researcher at NASA Goddard Institute for Space Studies. Also, developed a semiautomated image analysis procedure for microwear feature quantification

(Microware latest Version 4.2) and participated in development of ToothFrax microwear texture analysis software packages.

Arctic ecology field research

2019-

Currently co-lead PI (biotic team lead) on field research on the Varanger Peninsula in Finnmark, Norway. Our projects involve mapping nutritional landscapes of ecosystems, mammalian exploitation of those ecosystems, and impacts of human infrastructure and climate change on those ecosystems. Our focus is on reindeer and endemic mammals. Also directing a dental ecology research program in Lapland, Finland, on reindeer (dental wear), and directed several dental ecology projects on the Yamal Peninsula of Russia on arctic foxes, lemmings, and voles.

Paleontological field research

1987-2002

Directed GIS projects at various sites in the CRADLE World Heritage Site in South Africa and participated in paleoanthropological surveys in the Central Kalahari and Makgadikgadi Pans National Parks in Botswana. Co-directed paleoanthropological survey of Al Fajij Region, Jordan (search for middle Pleistocene hominin remains). Team member for paleontological expeditions in the Crazy Mountains, Montana (Paleocene mammal quarrying), and Rudabánya, Hungary (Miocene ape excavations).

Primatological field research

1988-1998

PI on studies of feeding ecology of wild primates in Indonesia (*Hylobates lar*, *Macaca fascicularis*, *Pongo pygmaeus*, *Presbytis thomasi*), and Venezuela (*Alouatta seniculus*, *Cebus olivaceus*). Co-PI on studies of diet and microwear of wild primates in Costa Rica (*Alouatta palliata*).

Archaeological research

1981-1985

Team member for Archaeological Excavations at Tel El-Efshar, Israel (Middle Bronze Age site), Tempe, Arizona (prehistoric Hohokam village), and Oxen Hill, Virginia (Colonial era historic site).

SOCIETY MEMBERSHIPS

American Association for the Advancement of Science, Society of Vertebrate Paleontology, American Association of Physical Anthropologists, Dental Anthropology Association, Sigma Xi Research Society, Phi Beta Kappa, Johns Hopkins University Society of Scholars, Flinders University Paleontological Society, L.S.B. Leakey Foundation Alumni Society, Center for Academic Research & Training in Anthropogeny (CARTA), Arkansas Sociology and Anthropology Association, Society of Vertebrate Paleontology, International Association for Dental Research, American Association for Dental Research, Arkansas Academy of Computing, American

Anthropological Association, American Academy of Arts and Sciences, US National Academy of Sciences.

GRANTS

- 2024 Principal Investigator. Mapping the nutritional landscape for reindeer in Lapland. Friends of Fulbright Finland Alumni Enrichment Award. Fulbright Finland Foundation.
- 2023-2024 Principal Investigator. Dental microwear and diets of Paleogene primates from the Fayum: Contributions to understanding the evolution of anthropoid communities. LSB Leakey Foundation.
- 2022-2026 Principal Investigator. National Science Foundation. Collaborative Research: NNA Research: Interactions of natural and social systems with climate change, globalization, and infrastructure development in Yamal (Russian Arctic) (with Valeriy Ivanov, collaborative PI).
- 2022-2023 Principal Investigator. TEAM Grant: A new proxy for tracking diet variation and habitat change in reindeer. University of Arkansas Honors College.
- 2019-2023 Principal Investigator. National Science Foundation. Collaborative Research: NNA Track 2: Impacts of climate change on the Western Siberia: Colligating the land surfaces, animal communities, and peoples of the Arctic (with Valeriy Ivanov, collaborative PI).
- 2021-2022 Fulbright Specialist. U.S. Department of State. Do reindeer teeth document Arctic climate change? Fulbright Finland Foundation (with Bruce Forbes, University of Lapland, PI).
- 2021-2024 Senior Personnel. COLLABORATIVE RESEARCH: Examining the influence of climatic and tectonic forcing on the development of Miocene ecosystems and faunal evolution in the East African Rift System (with Isaiah Nengo, PI).
- 2018-2021 Co-Investigator. National Institutes of Health. Objective outcome measures for the clinical assessment of erosive tooth wear (with Anderson Hara, PI).
- 2018-2019 Principal Investigator. Southeastern Conference Faculty Travel Grant.
- 2016-2017 Principal Investigator. University of Arkansas Honors College Faculty Equipment and Technology Grant.
- 2015-2016 Principal Investigator. National Science Foundation. Collaborative proposal: Hadza dental health and the transition from foraging to agriculture.
- 2014-2016 Co-Principal Investigator. LSB Leakey Foundation. Using dental microwear to infer hominin canine use (with Lucas Delezene, PI, Mark Teaford and Mike Plavcan, co-PIs).
- 2014-2016 Principal Investigator. LSB Leakey Foundation. Dental microwear of the Hadza: Implications for the evolution of human diet (with Alyssa Crittenden and Sarah Livengood, co-PIs).

- 2014-2015 Principal Investigator. Southeastern Conference. Travel Grant. The role of food hardness and size in damaging tooth enamel: An experimental approach with implications for reconstructing diet from fossil teeth.
- 2012-2015 Co-Principal Investigator. National Science Foundation. Collaborative Proposal: Renewed field investigations of *Australopithecus anamensis* sites at Kanapoi, Kenya. (with Mike Plavcan, Collaborator PI and Carol Ward, Collaborative PI).
- 2012-2014 Partner Investigator. Australian Research Council. Faunal responses to environmental change and isolation on an Australian land-bridge island (with Gavin Prideaux, CI).
- 2010-2014 Principal Investigator. National Science Foundation. Collaborative Proposal: Rodent diets and habitat reconstructions in South Africa: An actualistic and applied multidisciplinary stud. (with Matt Sponheimer, Collaborator PI).
- 2011-2012 Group Leader. National Evolutionary Synthesis Center. Catalysis Meeting Grant. "Evolution of human teeth and jaws: Implications for dentistry and orthodontics" (with Jerry Rose and John Sorrentino, co PIs).
- 2010-2012 Partner Investigator. Australian Research Council. Discovery Grant: Evolution in tooth and claw: Exploring the relationship between the radiation of marsupial herbivores and late Cenozoic climate change (with Gavin Prideaux, CI).
- 2009-2013 Senior Personnel. National Science Foundation. "Collaborative eesearch: Geological and paleoecological xontext of primate wvolution on Rusinga and Mfangano Islands, Kenya" (with Kieran McNulty, Principal Investigator).
- 2008-2013 Principal Investigator. L.S.B. Leakey Foundation Research Grant. "Baseline series to interpret dental microwear textures of early hominins" (with Mark Teaford, Co-Principal Investigator).
- 2009-2013 Co-Principal Investigator. National Science Foundation. "Intraspecific Variation in Primate Dental Wear: The Role of Environment and Diet" (with Frank Cuzzo, PI).
- 2009-2010 Principal Investigator. National Science Foundation. "Doctoral dissertation improvement: Neandertal behavior as inferred from incisor microwear texture analysis" (with Kristin Krueger, co-PI).
- 2009-2010 Principal Investigator. National Science Foundation. "Doctoral dissertation improvement: Dental microwear of Pliocene bovids from East African hominin sites: Implications for paleoenvironmental dynamics and human evolution" (with Jessica Scott, co-PI). Pending, but recommended by Program Officer.
- 2009-2010 Chief Techology Officer. National Institutes of Health SBIR Grant. "A non-invasive method to distinguish melanomas from benign skin lesions" (Founding partner and Chief Techology Officer in DermaTex, LLC, PI Zachary Klukkert).
- 2003-2008 Principal Investigator. National Science Foundation. "Collaborative research: Three-dimensional analysis of dental microwear in primates" (with Chris Brown, Collaborator PI).

- 2005-2006 Principal Investigator. Arkansas Biosciences Institute. "A texture based approach to screening for squamous cell carcinoma of the oral cavity".
- 2002-2004 Principal Investigator. Jurassic Foundation. "Dental microwear and diets of tyrannosaurids" (with Blaine Schubert, Co-Principal Investigator).
- 2002-2004 Co-Principal Investigator. National Science Foundation. "Acquisition of an analytical field emission environmental scanning electron microscope for interdisciplinary multi-user access at the University of Arkansas". (with John Schultz, Principal Investigator).
- 2001-2004 Senior Personnel. National Science Foundation. "Ecology of the mammalian fauna from Makapansgat Limeworks, South Africa". (with Matt Sponheimer, Principal Investigator).
- 2002-2003 Principal Investigator. National Science Foundation. "Acquisition of a white light confocal microscope for quantitative characterization of dental microwear surfaces" (with Chris Brown and Alan Walker, Co-Principal Investigators).
- 2002-2003 Principal Investigator. Alfred P. Sloan Foundation. "The evolution of human diet: the known, the unknown and the unknowable".
- 2001-2002 Principal Investigator. (State of Arkansas Information Liaison Office) SURF Grant "Aggressive behavior of captive chimpanzees due to enclosure size" (for Ms. Erica Findley).
- 2001 Principal Investigator. University of Arkansas. Baum Teaching Grant. "A video-based learning laboratory for primate behavioral ecology".
- 2000-2002 Principal Investigator. L.S.B. Leakey Foundation. "Modeling functional aspects of hominoid occlusal topography using GIS".
- 2000-2002 Partner Investigator. Australian Research Council. "Hominid evolution and extinctions during the Miocene in the Siwaliks of Indo-Pakistan" (with D.W. Cameron, Principal Investigator).
- 1998-2002 Principal Investigator. National Science Foundation. "Dental microwear and diets of Plio-Pleistocene hominids" (with Mark Teaford and Fred Grine, Co-Principal Investigators).
- 1999 Principal Investigator. Fulbright College of Arts and Sciences: Summer research stipend. "Using microscopic tooth wear to reconstruct the diets of human ancestors from Kenya".
- 1998-1999 Principal Investigator. National Science Foundation. "On-line symposia: The evolution of human diet" (with Mark Teaford, Co-Principal Investigator).
- 1998-1999 Principal Investigator. SILO (State of Arkansas Information Liaison Office) SURF Grant. Agonism and reconciliation in capuchins and howling monkeys in Costa Rica (for Mr. Brandon Wheeler).
- 1998-1999 Principal Investigator. Arkansas Space Grant Consortium Research Infrastructure Grant. Application of space-based imagery to paleontology in southern Africa.

- 1998-1999 Principal Investigator. Arkansas Space Grant Consortium Graduate Student Grant (for Jami Lockhart). Application of space-based imagery to paleontology in southern Africa.
- 1996-1999 Co-Principal Investigator. National Science Foundation. "Effects of tooth use on tooth shape, structure and wear" (with Mark Teaford, Principal Investigator).
- 1996-1998 Principal Investigator. Fulbright College Faculty Research Incentive Grant "Inferring primate diets from video-based three-dimensional tooth measurements".
- 1997 Principal Investigator. SILO (State of Arkansas Information Liaison Office) SURF Grant. An analysis of primate tooth form using three-dimensional coordinate data (for Ms. Rebecca Lamascus).
- 1996-1997 Principal Investigator. Arkansas Space Consortium Research Infrastructure Grant. "Application of space-based imagery to paleontology in the Kingdom of Jordan.
- 1996-1997 Principal Investigator. Arkansas Space Consortium Graduate Student Fellowship (for Ms. Shelley McGinnis). "Application of space-based imagery to paleontology in the Kingdom of Jordan".
- 1996 Principal Investigator. King Fahd Middle Eastern Studies Program of the University of Arkansas Research Grant Proposal. "Paleoanthropological research in Jordan.
- 1996 Principal Investigator. Boise Fund. "Paleoanthropological research in Jordan".
- 1995-1996 Principal Investigator. L.S.B. Leakey Foundation Research Grant. "Craniofacial form, dental microwear and anterior tooth use in humans" (with Mark Spencer, Co-Principal Investigator).
- 1994-1995 Principal Investigator. Andrew Mellon Foundation Field Research Grant. "Reconstructing the diets of Spanish dryopithecines".
- 1994-1995 Principal Investigator. L.S.B. Leakey Foundation Research Grant. "Reconstructing the diets of European Miocene primates".
- 1990-1991 Co-Principal Investigator. National Science Foundation Dissertation Improvement Grant. "Anterior dental microwear and feeding behavior in Sumatran anthropoid primates" (with John Fleagle, Principal Investigator).
- 1990-1991 Principal Investigator. L.S.B. Leakey Foundation Research Grant. "Anterior dental microwear among Sumatran anthropoid primates".
- 1990 Principal Investigator. Sigma Xi Grants-in-Aid of Research. "Incisor microwear of Anthropoid Primates".
- 1988 Principal Investigator. SUNY Stony Brook Doctoral Program in Anthropological Sciences Grant. "Anterior dental wear in *Cebus* and *Alouatta*".

PUBLICATIONS

Books

1. Ungar, P.S.; Teaford, M.F. (eds) HUMAN DIET: ITS ORIGIN AND EVOLUTION. London and Westport, CT., Bergen & Garvey, ISBN-13:9780897897365, 2002.
2. Ungar, P.S. (ed) EARLY HOMININ DIETS: THE KNOWN, THE UNKNOWN AND THE UNKNOWABLE. New York, Oxford University Press, ISBN-13: 9780198040477, 2007.
3. Ungar, P.S. MAMMAL TEETH: ORIGIN, EVOLUTION, AND DIVERSITY. Baltimore, The Johns Hopkins University Press, ISBN-13: 9780801896682, <https://doi.org/10.1353/book.485>, 2010.
4. Sponheimer, M.; Ungar, P.; Reed, K.; Lee-Thorp, J. (eds). EARLY HOMININ PALEOECOLOGY. Boulder, The University of Colorado Press, ISBN-13: 9781607322245, <https://doi.org/10.5876/9781607322252>, 2013.
5. Ungar, P.S. TEETH: A VERY SHORT INTRODUCTION. London, Oxford University Press (trade division), ISBN-13: 9780199670598, <https://doi.org/10.1093/actrade/9780199670598.001.0001>, 2014.
6. Ungar, P.S. EVOLUTION'S BITE: TEETH, DIET, AND HOW A CHANGING WORLD MADE US HUMAN. Princeton, Princeton University Press, ISBN-13: 9780691160535, <https://doi.org/10.1515/9781400884759>, 2017.

Book translations

1. Ungar, P.S. 이빨 : 아주 짧은 소개. Seoul, Munkakdongne Publishing Group, 204 pp. 2019.
2. Ungar, P.S. 人類は噛んで進化した: 歯と食性の謎を巡る古人類学の発見 . Tokyo, Hara-Shobo Co., Ltd 380 pp. 2019.
3. Ungar, P.S. 进化的咬痕 : 牙齿、饮食与人类起源的故事. Beijing, Grand China Publishing Group, 244 pp. 2019.

Peer-reviewed papers

1. Ungar, P.S. Incisor microwear and feeding behavior in *Alouatta seniculus* and *Cebus olivaceus*. AMERICAN JOURNAL OF PRIMATOLOGY 20:43-50, <https://doi.org/10.1002/ajp.1350200107>, 1990.
2. Ungar, P.S.; Grine, F.E. Incisor size and wear in *Australopithecus africanus* and *Paranthropus robustus*. JOURNAL OF HUMAN EVOLUTION 20:313-340, [https://doi.org/10.1016/0047-2484\(91\)90013-L](https://doi.org/10.1016/0047-2484(91)90013-L), 1991.
3. Ungar, P.S.; Simon, J-C; Cooper, J.W. A semiautomated image analysis procedure for the quantification of dental microwear. SCANNING 13:31-36, <https://doi.org/10.1002/sca.4950170108>, 1991.
4. Ungar, P.S. Dental evidence for diet in primates. ANTHROPOLOGIAI KÖZLEMÉNYEK 34:141-155,

https://epa.oszk.hu/03100/03120/00052/pdf/EPA03120_anthropologiai_kozelemenyek_34_141-155.pdf, 1992. https://cdn.vox-cdn.com/uploads/chorus_asset/file/22652883/zhurong_lander.jpeg

5. Ungar, P.S. Incisor microwear of Sumatran anthropoid primates. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* 94:339-363, <https://doi.org/10.1002/ajpa.1330940305>, 1994.
6. Ungar, P.S.; Walker, A.; Coffing, K.E. A reanalysis of the Lukeino Molar (KNM-LU 335). *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* 94:165-173, <https://doi.org/10.1002/ajpa.1330940202>, 1994.
7. Ungar, P.S. Patterns of ingestive behavior and anterior tooth use differences in sympatric anthropoid primates. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* 95:197-219, <https://doi.org/10.1002/ajpa.1330950207>, 1994.
8. Leakey, M.G.; Ungar, P.S.; Walker, A. A new hominoid genus from the Late Oligocene of Lothidok, Turkana District, Kenya. *JOURNAL OF HUMAN EVOLUTION*, 28:519-531, <https://doi.org/10.1006/jhev.1995.1040>, 1995.
9. Ungar, P.S. Fruit preferences of four sympatric primate species at Ketambe, northern Sumatra, Indonesia. *INTERNATIONAL JOURNAL OF PRIMATOLOGY*, 16:221-235, <https://doi.org/10.1007/BF02735479>, 1995.
10. Ungar, P.S. A semiautomated image analysis procedure for the quantification of dental microwear II. *SCANNING* 17:57-59, <https://doi.org/10.1002/sca.4950170108>, 1995.
11. Ungar, P.S.; Kay, R.F. The dietary adaptations of European Miocene Catarrhines. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, USA*, 92:5479-5481, <https://doi.org/10.1073/pnas.92.12.5479>, 1995.
12. Ungar, P.S.; Teaford, M.F.; Glander, K.E.; Pastor, R.F. Dust accumulation in the canopy: implications for the study of dental microwear in primates. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*, 97:93-99, <https://doi.org/10.1002/ajpa.1330970202>, 1995.
13. Ungar, P.S. Les dietes humanes: els premers 5,99 milions d'anys. *COTA ZERO*, 12:28-46, <https://www.raco.cat/index.php/CotaZero/article/view/67080>, 1996.
14. Ungar, P.S. Dental Microwear of European Miocene catarrhines: evidence for diets and tooth use. *JOURNAL OF HUMAN EVOLUTION*, 31:335-366, <https://doi.org/10.1006/jhev.1996.0065>, 1996.
15. Ungar, P.S. Feeding height and niche separation in sympatric Sumatran monkeys and apes. *FOLIA PRIMATOLOGICA*, 67:163-168, <https://doi.org/10.1159/000157218>, 1996.
16. Ungar, P.S. The relationship of incisor size to diet and anterior tooth use in sympatric Sumatran anthropoids. *AMERICAN JOURNAL OF PRIMATOLOGY*, 38:145-156, [https://doi.org/10.1002/\(SICI\)1098-2345\(1996\)38:2<145::AID-AJP3>3.0.CO;2-Z](https://doi.org/10.1002/(SICI)1098-2345(1996)38:2<145::AID-AJP3>3.0.CO;2-Z), 1996.
17. Ungar, P.S.; Teaford, M.F. A preliminary examination of non-occlusal dental microwear in anthropoids: implications for the study of fossil primates. *AMERICAN JOURNAL OF*

- PHYSICAL ANTHROPOLOGY, 100:101-113, [https://doi.org/10.1002/\(SICI\)1096-8644\(199605\)100:1<101::AID-AJPA10>3.0.CO;2-4](https://doi.org/10.1002/(SICI)1096-8644(199605)100:1<101::AID-AJPA10>3.0.CO;2-4), 1996.
18. Al-Shiyab, A.H.; Cameron, D.W.; Ungar, P.S. A palaeoanthropological survey of Pleistocene deposits near Dana and Quayqira, Jordan. *TEL AVIV*, 24:240-252, <https://doi.org/10.1179/tav.1997.1997.2.240>, 1997.
 19. Kay, R.F.; Ungar, P.S. Dental evidence for diet in early Miocene catarrhines with comments on the confounding effects of phylogeny on the interpretation of adaptation. In *FUNCTION, PHYLOGENY AND FOSSILS: MIOCENE HOMINOIDS AND GREAT APE AND HUMAN ORIGINS*. Begun, D.R.; Rose, M.; Ward C., eds. New York, Plenum, pp. 131-151, https://doi.org/10.1007/978-1-4899-0075-3_7, 1997.
 20. Ungar, P.S.; Fennell, K.J.; Gordon, K.; Trinkaus, E. Neandertal incisor bevelling. *JOURNAL OF HUMAN EVOLUTION*. 32:407-421, <https://doi.org/10.1006/jhev.1996.0109>, 1997.
 21. Rose, J.C.; Ungar, P.S. Gross dental wear and Dental Microwear in Historical Perspective. In *DENTAL ANTHROPOLOGY: FUNDAMENTALS, LIMITS, PROSPECTS*. Alt, K.W.; Rosing, F.W.; Teschler Nicola, M., eds. Stuttgart, Gustav-Fischer, pp. 349-386, https://doi.org/10.1007/978-3-7091-7496-8_19, 1998.
 22. Ungar, P.S. Dental allometry, morphology and wear as evidence for diet in fossil primates. *EVOLUTIONARY ANTHROPOLOGY* 6:205-217, [https://doi.org/10.1002/\(sici\)1520-6505\(1998\)6:6<205::aid-evan3>3.0.co;2-9](https://doi.org/10.1002/(sici)1520-6505(1998)6:6<205::aid-evan3>3.0.co;2-9), 1998.
 23. Zuccotti, L.F.; Williamson, M.D.; Limp, F.W.; Ungar, P.S. Modeling primate occlusal topography using Geographic Information Systems Technology. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* 107:137-142, [https://doi.org/10.1002/\(sici\)1096-8644\(199809\)107:1<137::aid-ajpa11>3.0.co;2-1](https://doi.org/10.1002/(sici)1096-8644(199809)107:1<137::aid-ajpa11>3.0.co;2-1), 1998.
 24. Bax, J.S.; Ungar, P.S. Incisor labial surface wear striations in modern humans and their implications for handedness in middle and late Pleistocene hominids. *INTERNATIONAL JOURNAL OF OSTEOARCHAEOLOGY*. 9:189-198, [https://doi.org/10.1002/\(sici\)1099-1212\(199905/06\)9:3<189::aid-oa474>3.0.co;2-n](https://doi.org/10.1002/(sici)1099-1212(199905/06)9:3<189::aid-oa474>3.0.co;2-n), 1999.
 25. Ungar, P.S.; Beaupre, S. Feeding adaptations II: The Vertebrates. *ENCYCLOPEDIA OF PALEONTOLOGY*. Singer, R, ed. London, Fitzroy Dearborn Publishers, 1999, Volume 1, pp. 465-473.
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189. Pujiantari, P.; Delezene, L.K.; Plavcan, J.M.; Teaford, M.F.; Ungar, P.S. Stubby vs stabby: A preliminary analysis of canine microwear in primates: implication for inferring ingestive

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<https://doi.org/10.1002/ajp.23608>, 2024.

190. Ungar, P.S. Primate ecology and dental-dietary adaptations: Foodprints for thought. Lambert, J.E., Bryer, M.A.H. and Rothman, J.M. How Primates Eat: A Synthesis of Nutritional Ecology Across a Mammal Order. Chicago, University of Chicago Press, pp. 498-514, <https://press.uchicago.edu/ucp/books/book/chicago/H/bo211639422.html>, 2024.
191. Yang, D.; Liu, W.; Yingjia, C.; Zheng, J.; Ungar, P.S.; Zhou, Z.R. Friction regulation of chiton radulae through interlocking effect of rigid-flexible structures. TRIBOLOGY INTERNATIONAL, 192, 109230, <https://doi.org/10.1016/j.triboint.2023.109230>, 2024.

Non-juried works

1. Ungar, P.S. Review of THE NEGLECTED APE. Nadler, R.D.; Galdikas, B.F.M.; Sheeran, L.K.; Rosen, N., eds. QUARTERLY REVIEW OF BIOLOGY, 72:343, <https://doi.org/10.1086/419911>, 1997.
2. Ungar, P.S. Mapping Jordan's Deserts. NATIONAL CENTER FOR RESOURCE INNOVATIONS-SOUTHWEST NEWS (Spring, 1997), 1997.
3. Ungar, P.S.; Schneider, M.J. Review of CHIMPANZEE POLITICS: POWER AND SEX AMONG APES. De Waal, F. QUARTERLY REVIEW OF BIOLOGY, 74:250, <https://doi.org/10.1086/393142>, 1999.
4. Ungar, P.S.; Rose, J.C. Review of OSTEODENTAL BIOLOGY OF THE PEOPLE OF PORTUS ROMAE (NECROPOLIS OF ISOLA SACRA, 2ND-3RD CENT. AD). Rossi, F.; Bondioli, L.; Geusa, G.; Macchiarelli, R. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY, 112:438-440, [https://doi.org/10.1002/1096-8644\(200007\)112:3<438::AID-AJPA14>3.0.CO;2-T](https://doi.org/10.1002/1096-8644(200007)112:3<438::AID-AJPA14>3.0.CO;2-T), 2000.
5. Ungar, P.S. Review of LOTHAGAM: THE DAWN OF HUMANITY IN EASTERN AFRICA. Leakey, M.G; Harris, J.M, eds. QUARTERLY REVIEW OF BIOLOGY, 78:354, <https://doi.org/10.1086/380002>, 2003.
6. Ungar, P.S. Review of DENTAL FUNCTIONAL MORPHOLOGY: HOW TEETH WORK. Lucas, P.W. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. 128:701-702, <https://doi.org/10.1002/ajpa.20200>, 2005.
7. Ungar, P.S. Review of TEETH (2nd Edition). Hillson, S. QUARTERLY REVIEW OF BIOLOGY. 81:190, <https://doi.org/10.1086/506098>, 2006.
8. Ungar, P.S. Introductory Essay for the Spring 2009 issue of RESEARCH FRONTIERS.
9. Ungar, P.S. Introductory Essay for the Spring, 2009 issue of FULBRIGHT COLLEGE REVIEW.
10. Ungar, P.S. Dental evidence for early hominin diets. SOCIETY FOR ARCHEOLOGICAL SCIENCES BULLETIN, 32 (2): 15 – 18, 2009.
11. Ungar, P.S. Dental microwear analysis. BEER-N-BONES, 6(1): 9-13, 2011.

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13. Ungar, P.S. Wild Things: Human teeth vs. other mammalian teeth. Johns Hopkins University Press Blog. <https://www.press.jhu.edu/newsroom/wild-thing-human-teeth-vs-other-mammalian-teeth>, January 31, 2013.
14. Ungar, P.S. Tobias, Phillip V. *ENCYCLOPEDIA OF GLOBAL ARCHAEOLOGY*. Smith, C. Ed. Heidelberg: Springer Science and Business Media, 2014.
15. Ungar, P.S. Thinking more about our teeth. In Northover, A., ed., *THE OUP TENTH ANNIVERSARY BOOK: TEN YEARS OF ACADEMIC INSIGHTS FOR THE THINKING WORLD*. Oxford, Oxford University Press, pp. 90-92, 2015.
16. Ungar, P.S. Human evolution, teeth and diet. *ARCHAEOLOGY OF FOOD: AN ENCYCLOPEDIA*. Beaudry, M.C.; Metheny, K. Eds. Lanham, MD: Alta Mira Press. 2015.
17. Ungar, P.S. The “True” Human Diet. *SCIENTIFIC AMERICAN*. Guest Blog, <https://blogs.scientificamerican.com/guest-blog/the-true-human-diet/>, April 17, 2017.
18. Ungar, P.S. It’s not that your teeth are too big; your jaw is too small. *AEON Online magazine*. <https://aeon.co/ideas/its-not-that-your-teeth-are-too-big-your-jaw-is-too-small>, 2017.
19. Ungar, P.S. The Page 99 Test. Peter S. Ungar’s “Evolution’s Bite”. Guest Blog, The Page 99 Test, <https://page99test.blogspot.com/search?q=ungar>, May 18, 2017
20. Ungar, P.S. Peter Ungar on Evolution’s Bite. Author Blog, Princeton University Press Blog, <https://press.princeton.edu/books/hardcover/9780691160535/evolutions-bite>, May 18, 2017.
21. Ungar, P.S.; Zhou, Z. Dental biotribology: Wearing away the boundary between biology and engineering. *BIOSURFACE AND BIOTRIBOLOGY*, 3 (4): 115-118, <https://doi.org/10.1016/j.bsbt.2017.11.002>, 2017.
22. Zhou, Z; Constantino, P.; Hoffman, M.; Kubo, M.; Merceron, G.; Purnell, M.; Sajewicz, E; Sanson, G, Schulz-Kornas, E.; Swain, M.; Teaford, M.; Zheng, J.; Quan, L.; Hua,, L.; Ungar, P.S. Dental biotribology: Final thoughts and future directions. *BIOSURFACE AND BIOTRIBOLOGY*, 3(4):119-123. <https://doi.org/10.1016/j.bsbt.2017.11.001>, 2017.
23. Ungar, P.S. TED-Ed Script for animated Short. <https://ed.ted.com/lessons>. <https://ed.ted.com/lessons/how-did-teeth-evolve-peter-s-ungar>, February, 2018.
24. Ungar, P.S. Bob Sussman and the concept of species-specific dietary adaptations. *PRIMATE CONSERVATION* 33:83-86, http://static1.1.sqspcdn.com/static/f/1200343/28238426/1578090614030/PC33_Ungar_R_W_Sussman_Species_dietary_adaptation.pdf?token=BjMBd1%2BBDCv4rR05GDK52omquso%3D, 2019.

25. Hlusko, L.J.; Ungar, P.S. Alan Cyril Walker: 23 August 1938-20 November 2017. ROYAL SOCIETY BIOGRAPHICAL MEMOIRS, 67: 449-467, <https://doi.org/10.1098/rsbm.2019.0017>, 2019.
26. Ungar, P.S. Review of Edible Insects and Human Evolution. Julie Lesnik Gainsville: University Press of Florida, 2018, 184 pp. \$79.95, hardcover. JOURNAL OF ANTHROPOLOGICAL RESEARCH, 75(4):617-618, <https://doi.org/10.1086/706001>, 2019.
27. Ungar, P.S. Review of The Teeth of Mammalian Vertebrates. Berkovitz, B.; Shellis, P., eds. QUARTERLY REVIEW OF BIOLOGY, 94(3): 313, <https://doi.org/10.1086/705090>, 2019.
28. Ungar, P.S. Evolutionary foodprints. ANTHROPOLOGY NEWS, 61(6):16-19, <https://www.anthropology-news.org/articles/evolutionary-foodprints/>, 2020.
29. Celis, G.; Ungar, P.S., Sokolov, A.; Sokolova, N.; Böhner, H.; Liu, D.; Ziker, J.; Gilg, O.; Fufachev, I.; Pokrovskaya, O.; Ims, R. A.; Ivanov, V.; Ehrich, D.. A new semiautomated image analysis procedure for time-lapsed camera trap image classification. BioRxiv Preprint Repository. <https://doi.org/10.1101/2022.12.28.522027>, 2022.
30. Behrensmeyer, A.K.; Cerling, T.; Fortelius, M.; Gathogo, P.; Harmand, S.; Martin, L.; Miller, E.; Pilbeam, D.; Ungar, P.; Wood, B. Richard Erksine Frere Leakey (1944-2022). EVOLUTIONARY ANTHROPOLOGY. <https://doi.org/10.1002/evan.21947>, 2022.
31. Ungar, P.S; Van Valkenburgh, B.; Peterson, A. (2023). Arctic fox tooth wear and breakage data for arctic foxes collected on the Yamal Peninsula, Russia, between 1981 and 2019. Arctic Data Center. <https://doi.org/10.18739/A2BR8MH7F>, 2023.
32. Ungar, P.S. Narrow-headed vole molar wear data for specimens collected between 1999 and 2019 on the Yamal Peninsula, Russia, published in Ungar et al. (2021). Arctic Data Center. <https://doi.org/10.18739/A2ZG6G848>, 2023.
33. Ungar, P.S. Lemming and vole incisor microwear data for the Yamal peninsula, Belyi Island to Kharp, 2021. Arctic Data Center. <https://doi.org/10.18739/A2PZ51N6R>, 2023.

Papers submitted/under review

1. Fan, Y; Fehringer, L.K.; Liao, W.; Liang, H.; Wang, W.; Ungar, P.S. Dietary response of mainland fossil Pongo to ecological change in the Mid-Pleistocene of southern China. Submitted to JOURNAL OF HUMAN EVOLUTION.
2. Fehringer, L.K.; Henkes, G.; Princehouse, P.; Rowan, J.; Russo, G.A.; Teaford, M.F.; Uno, K.; Ungar, P.S. Dental microwear of late Paleogene/ early Neogene primates from the Turkana Basin of northern Kenya. Submitted to the JOURNAL OF HUMAN EVOLUTION.
3. Han, Y.; Fehringer, L.K.; Wang, J.; Yao, J.; Chen, X.; Wang, Q.; Ungar, P.S.; Zhang, D. Paleodiet reconstruction of *Procapra przewalskii* from the Qinghai Lake Basin during the Early and Middle Holocene. Submitted to JOURNAL OF ARCHAEOLOGICAL SCIENCE REPORTS.
4. Sponheimer, M.; Paine, O.C.C.; Daegling, D.J.; Ungar, P.S.; Reed, K. Dinner with Lucy: What does *Paranthropus boisei* bring to the table? Dîner avec Lucy : Que apporte *Paranthropus boisei* à la table ? Submitted to COMPTES RENDUS PALEVOL.

PRESENTATIONS

Invited and Keynote Addresses

1. Ungar, P.S.; Teaford, M.F. The dietary split between apes and the earliest hominids. Presented in the Milestones in the Evolution of Human Diet Symposium at the Joint Meeting of the International Congress on Human Biology and the International Congress on Human Paleontology, 1998. Sun City, South Africa.
2. Ungar, P.S. New approaches to the study of tooth shape and wear at the University of Arkansas. Kenya National Museums Department of Palaeontology, 1999.
3. Ungar, P.S. Dental evidence for diet in primates. Visiting lecture series in Anthropology. University of Tennessee, 1999.
4. Ungar, P.S. Reconstructing the diets of human ancestors and other early hominids from the Plio-Pleistocene of Africa. Visiting lecture series in Anthropology. University of Tennessee, 1999.
5. Ungar, P.S. Dental evidence for diet in fossil primates. Paleoanthropology seminar, Smithsonian Institution/George Washington University, 1999.
6. Ungar, P.S. Reconstructing the diets of fossil hominids. Visiting lecture series in Anthropology. University of Missouri, 2000.
7. Ungar, P.S. Reconstructing early hominid diets. Visiting Lecture series in Anthropology. Washington University, St. Louis, 2001.
8. Ungar, P.S. Reconstructing the diets of human ancestors and other early hominids from the Plio-Pleistocene of Africa. Bernard Price Institute of Palaeontology Lecture. University of the Witwatersrand, Johannesburg, South Africa, 2001.
9. Ungar, P.S. New approaches to the study of dental functional anatomy. Paleobiology Seminar Lecture Series. State University of New York at Stony Brook, 2003
10. Ungar, P.S. New approaches to the study of dental functional anatomy with implications for human evolution. University of Barcelona, Spain, 2003.
11. Ungar, P.S. Les nouvelles approches à l'étude d'anatomie fonctionnelle dentaire avec les implications pour l'évolution des hominins. University of Poitiers, France, 2003.
12. Ungar, P.S. "Chewing it over: using worn teeth to reconstruct diet in early hominins and other fossil primates". University of Cape Town, South Africa, 2004.
13. Ungar, P.S. and Teaford, M.F. Dental insights into diet in modern and fossil primates: part II. University of Minnesota, Minneapolis, 2004.
14. Ungar, P.S. Dental evidence for the origin and evolution of human diet. Presented in the special symposium "Better Nutrition for a Better World: Origin and Evolution of the Modern Human Diet" at the annual meeting of the American Association for the Advancement of Science, Washington, DC, 2005.

15. Ungar, P.S. Dental topographic analysis and diets of early hominins. Presented at “Dental perspectives on human evolution: State of the art research in dental anthropology”, a conference hosted by the Department of Human Evolution at the Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany, 2005.
16. Ungar, P.S. Diet and paleoecology of early hominins. Presented at “Paleoclimates and Human Evolution: A workshop on integrating continental drilling research with paleoanthropology and other geological record”. Front Royal, Virginia, 2005.
17. Ungar, P.S. Microwear texture analysis of *Australopithecus afarensis* and early *Homo* from the Plio-Pleistocene of Africa. Presented at African Genesis: A Symposium on Hominid Evolution in Africa. Johannesburg, South Africa, 2006.
18. Ungar, P.S. Dental evidence for diets of early hominins. Southern Illinois University, Carbondale, Illinois, 2006.
19. Ungar, P.S. Invited discussant to The 2006 Stony Brook Human Evolution Symposium and Workshop convened by Richard Leakey, Stony Brook NY, 2006.
20. Ungar, P.S. Dental microwear texture analysis and the diets of Plio-Pleistocene hominins from Africa. University of Cape Town, South Africa, 2006.
21. Ungar, P.S. Dental microwear of PPM bovids from Langebaanweg: Evidence for diet and paleoecology. Langebaanweg 2006 Mini-symposium and Workshop, Langebaanweg, Western Cape Province, South Africa, 2006.
22. Ungar, P.S. Dental evidence for diet in early Hominins. University of Colorado Department of Anthropology Graduate Students Distinguished Lecture Series, Boulder, CO, 2007.
23. Ungar, P.S. Dental evidence for diets of Plio-Pleistocene hominins from Africa. Pennsylvania State University. Department of Anthropology Colloquium Series, 2008.
24. Ungar, P.S. Tooth form and function: Insights into adaptation through the analysis of dental microwear. Invited talk at the 14th International Symposium on Dental Morphology, Greifswald, Germany, 2008.
25. Ungar, P.S. Dental evidence for diet in fossil hominins from the Plio-Pleistocene of Africa. Anthropology Lecture Series, Arizona State University, Tempe, AZ , 2008.
26. Ungar, P.S. and Sponheimer, M. Paleontological evidence for the evolution of human diet. Presented at a special seminar in honor of Darwin’s 200th: The Evolution of Human Diet. Annual Meeting of the American Association for the Advancement of Science, Chicago, IL, 2009.
27. Ungar, P.S. Inferring early hominin diets from dental functional morphology and microwear. Presented at the invited conference Darwin’s Legacy: Early Human Evolution in Africa. The American Museum of Natural History, New York, 2009.
28. Ungar, P.S. Dental evidence for the diets of early human ancestors and related fossil species from Africa. Oklahoma State University College of Health Sciences Medical Lecture Series, Tulsa, OK, 2009.

29. Ungar, P.S. Ungar, P.S. Dental microwear and the interpretation of craniodental adaptation of *Paranthropus boisei*. Invited discussant at the Eighth Human Evolution Series Workshop of the Turkana Basin Institute, Turkwel Research Station, West Turkana, Kenya, 2009.
30. Ungar, P.S. Dental evidence for the diets of early human ancestors and related fossil species from Africa. Northeastern State University Science and Technology seminar series, Tahlequah, OK, 2009.
31. Ungar, P.S. Texture analysis of molar microwear and diet. Presented at the Royal Society scientific Discussion Meeting "The first 4 million years of human evolution", London, UK, 2009.
32. Ungar, P.S. Invited discussant and workshop delegate on Evolution and Diseases of Civilization at the World Health Summit, Berlin, Germany, 2009.
33. Ungar, P.S. Dental evidence for the diets of early human ancestors and related fossil species from Africa. Northeastern Ohio University College of Medicine invited seminar series, Rootstown, Ohio, 2010.
34. Ungar, P.S. Dental evidence for diets of early hominins. Seminar series for the Bernard Price Institute and Institute of Human Evolution, University of the Witwatersrand, Johannesburg, South Africa. 2010.
35. Ungar, P.S. Diet and human evolution in South Africa. Invited talk at the Mae Jamison Mae Jamison U.S. Science Reading Room of the Embassy of the United States, Pretoria, South Africa, 2010
36. Ungar, P.S. Microscopic use-wear on teeth and diets of human ancestors and other fossil mammals. Key note address at the Second International Conference on Surface Metrology, Worcester, MA, 2010.
37. Ungar, P.S. Shedding light on the diets of human ancestors using dental microwear analysis. Flinders University School of Biological Sciences Seminar Series, Adelaide, South Australia, 2011.
38. Ungar, P.S. Reconstructing behavior of fossil mammals: An example from the primates. Paleontological Field school of Flinders University, Naracoorte, South Australia, 2011.
39. Ungar, P.S. Fossil teeth and the diets of early human ancestors from Africa. Darwin Day Invited Lecture. University of Arkansas, Little Rock, 2011.
40. Ungar, P.S. Dental evidence for diet in early Homo. Wenner Gren Workshop: Human Biology and the Origins of Homo. Sintra, Portugal, 2011.
41. Ungar, P.S. Dental senescence: Resistance to and causes of tooth wear. NESCent Catalysis Meeting: Earth Surface Processes in the Evolution of Mammalian Tooth Shape. National Evolutionary Synthesis Center, Durham, NC, 2011.
42. Ungar, P.S. Enamel microwear and tooth shape in human evolution. Enamel VIII Keynote Address. Starved Rock State Park, Utica, IL, 2011.

43. Ungar, P.S. Microwear and diets of early human ancestors and other fossil hominins from Africa. Evolutionary Morphology Seminar Series. University of Chicago, Chicago, IL 2011.
44. Ungar, P.S. Evolutionary Dentistry. NESCent Catalysis Meeting: Evolution of human teeth and jaws: implications for dentistry and orthodontics. National Evolutionary Synthesis Center, Durham, NC, 2012.
45. Ungar, P.S. Early hominin “foodprints” and dietary ecology. Did Climate Change Shape Human Evolution? A symposium hosted by the Lamont-Doherty Earth Observatory, Palisades, NY, 2012.
46. Ungar, P.S. Three day short course on reconstructing diets in the fossil record at the University of Helsinki, Helsinki, Finland, 2012.
47. Ungar, P.S. Fossil teeth and the diets of early human ancestors from Africa. Evolutionary Ecology Seminar Series. Helsinki, Finland, 2012.
48. Ungar, P.S. Reconstructing diet in human ancestors. University of San Diego Graduate Student Seminar Series, 2012.
49. Ungar, P.S. Australopiths. The Evolution of Human Nutrition. Center for Academic Research and Training in Anthropogeny Symposium Speaker, San Diego, California, 2012.
50. Ungar, P.S. Dental microwear as a proxy for diet and environmental reconstruction in non-primates. Wenner-Gren Evolution of Human Diet Workshop. Tempe, Arizona, 2013.
51. Ungar, P.S. How do we reconstruct diets of fossil primates from their teeth? Biotribology Research Center, Southwest Jiatong University, Chengdu, China, 2014.
52. Ungar, P.S. Fossil teeth and the diets of early human ancestors from Africa. Biotribology Research Center, Southwest Jiatong University, Chengdu, China, 2014.
53. Ungar, P.S. Lessons from Ketambe: Implications for reconstructing incisor use in the hominin fossil record, Pasar Putih, Tuanan Research Station, Central Kalimantan, Indonesia, 2014.
54. Ungar, P.S. Dental evidence for food oral processing in human ancestors. Third International Conference on Food Oral Processing, Wageningen, Holland, 2014.
55. Ungar, P.S. Dental evidence for the diets of early human ancestors. Fayetteville Public Library, Fayetteville, Arkansas, 2014.
56. Ungar, P.S. Some musings on the history of dental microwear research and the role of texture analysis. Society of Vertebrate Paleontology, Berlin, Germany, 2014.
57. Ungar, P.S. Reconstructing the diets of early human ancestors. Lyon College, Batesville, Arkansas, 2015.
58. Ungar, P.S. Evolutionary Studies Program Seminar Series. Early hominin diets. Binghamton University, Binghamton, NY, 2015.

59. Ungar, P.S. Tooth surface topography: A scale-sensitive approach with implications for inferring dental adaptation and diet. Seminar on Geospatial Approaches in Anthropology. School for Advanced Research, Santa Fe, NM, 2016.
60. Ungar, P.S. Teeth: Evolution's Bite. University of Arkansas Honors College Signature Seminar Series Public Lecture, Fayetteville, AR, 2016.
61. Teaford, M.F.; Ungar, P.S.; Ross, C.; Taylor, A.; Vinyard, C. In vivo rates of dental microwear formation in laboratory primates fed different food items. Presented at the BioSurface and BioTribology Workshop, Chengdu, China, 2017.
62. Ungar, P.S. Evolution's bite: A story of teeth, diet, and human origins. Distinguished Lecture Series, Houston Museum of Natural Science, Houston, TX, 2017.
63. Ungar, P.S. Evolution's bite: A story of teeth, diet, and human origins. Distinguished Lecture series. The Cooper Union, New York, 2017.
64. Ungar, P.S. Evolution's bite: A story of teeth, diet, and human origins. New York Consortium on Evolutionary Primatology Lecture Series. New York University, New York, 2017.
65. Ungar, P.S. Evolution's bite: A story of teeth, diet, and human origins. Stony Brook University Lecture Series. New York, 2017.
66. Ungar, P.S. The ancestral human diet. TEDx Talk (Dickson Street). Fayetteville, AR, 2017.
67. Ungar, P.S.; Hartgrove, C.L; Wimberly, A.N.; Teaford, M.F. Dental topography and microwear textures of *Sapajus apella*. Presented at the BioSurface and BioTribology Workshop, Chengdu, China, 2017.
68. Ungar, P.S. Evolution's bite: Dental evidence for the diets of our distant ancestors. University of Nottingham. Distinguished Lecture series. Nottingham, UK. 2018.
69. Ungar, P.S. Evolution's Bite: Dental evidence for the diets of our distant ancestors. University of Cambridge. Biological Anthropology Lecture series. Cambridge, UK. 2018.
70. Ungar, P.S. Evolution's bite: A story of teeth, diet, and human origins. The Royal Institution. Distinguished Lecture. London, UK. 2018.
71. Ungar, P.S. Evolution's bite: Dental evidence for the diets of our distant ancestors. Center for Human Evolutionary Studies Distinguished Lecture Series. Rutgers University. New Brunswick, NJ. 2018.
72. Ungar, P.S. Evolution's Bite. Dental evidence for the diets of our distant ancestors. International Association for Dental Research. London, UK. 2018.
73. Ungar, P.S. Evolution's Bite. Dental evidence for the diets of our distant ancestors. Dinosaur Dentistry. University of Alberta School of Dentistry. Edmonton, Alberta, Canada, 2018.
74. Ungar, P.S. Evolution's Bite. Anthro Seminar. Purdue University, West Lafayette, IN. 2018.
75. Ungar, P.S. Evolution's Bite. Dental evidence for the diets of our distant ancestors. University of Washington School of Dentistry. Seattle, WA, 2018.

76. Ungar, P.S. Dental functional morphology, microwear, evolution of teeth, and bioarchaeology. MasterTrack seminar (short course). Washington Academy of General Dentistry. Seattle, WA, 2018.
77. Ungar, P.S. Tooth wear studies at the University of Arkansas: Macrowear, microwear, and nanowear. Southeastern Conference Cranio-Dental Science Slam. Texas A&M College of Dentistry, Dallas, TX, 2018.
78. Ungar, P.S. Evolution's Bite. Dental evidence for the diets of our distant ancestors. Distinguished Invited Lecture. Eastern Society for Teachers of Oral Pathology annual meeting. Savannah, GA, 2018.
79. Ungar, P.S. Evolution's Bite. Dental evidence for the diets of our distant ancestors. Duke University Evolutionary Anthropology Distinguished Lecture Series. Durham, NC, 2019.
80. Ungar, P.S. Evolutionary perspectives on oral health: The dental evidence. TriCEM (Triangle Center for Evolutionary Medicine) breakfast talk. Durham, NC, 2019.
81. Ungar, P.S. Evolution's Bite. Dental evidence for the diets of our distant ancestors. Colloquium Biogéosciences. Université de Bourgogne. Dijon, France, 2019.
82. Ungar, P.S. Evolution's Bite. Dental evidence for the diets of our distant ancestors. Studium Generale. SyiahKuala University, Banda Aceh, Indonesia, 2019.
83. Ungar, P.S. Evolution's Bite. Dental evidence for the diets of our distant ancestors. Public Lecture. Universitas Nasional, Jakarta, Indonesia, 2019.
84. Ungar, P.S. Evolution's Bite. Dental evidence for the diets of our distant ancestors. Ruang Seminar. STIE YKPN Business School, Yogyakarta, Indonesia, 2019.
85. Ungar, P.S. What teeth can tell us about our evolution. Dean's Distinguished Lecture Series. University of North Carolina School of Dentistry, Chapel Hill, NC 2019.
86. Ungar, P.S. Evolution's Bite. Dental evidence for the diets of our distant ancestors. TAMU College of Dentistry's Pathway to Excellence Seminar Series and Perot Museum of Nature and Science Dig Deeper Lecture Series, Texas A&M College of Dentistry, Dallas, TX, 2019.
87. Ungar, P.S. Teeth, diet and our fossil ancestors. School of the Arts, Labytnangi, Yamalo-Nenets Autonomous Okrug, Russia.
88. Ungar, P.S. Teeth, diet and our fossil ancestors. Opening lecture. All-Russian science festival NAUKA 0+” Labytnangi, Yamalo-Nenets Autonomous Okrug, Russia, 2019.
89. Ungar, P.S. The evolution of teeth: A half billion year odyssey! Advanced Education Programs in Oral and Maxillofacial Radiology & Prosthodontics, Stony Brook University School of Dentistry. Stony Brook, NY, 2020.
90. Ungar, P.S. Paleontology and Archaeology of the Yamal Peninsula, Arctic Siberia, Russia. Navigating the New Arctic Workshop, Labytnangi, Yamalo-Nenets Autonomous Okrug, Russia (virtual), 2020.

91. Ungar, P.S. Evolution's Bite. Dental evidence for the diets of our distant ancestors. Washington Academy of General Dentistry Continuing Education "Stay Home, Stay Healthy" Webinar Series, 837 Attendees. Seattle, WA (virtual), 2020.
92. Ungar, P.S. The evolution of teeth: A half billion year odyssey! Academy of Interdisciplinary Dentofacial Therapy Study Group, Fayetteville, AR (virtual), 2020.
93. Ivanov, V.Y.; Ungar, P.S.; Ziker, J.P. Lightning Talk: Update on Environmental change in Western Siberia: Interactions of land surfaces, animal communities, infrastructure, and people of the Arctic. Navigating the New Arctic Principal Investigators Meeting. Arlington, VA (virtual), 2020.
94. Ungar, P.S.; Ivanov, V.Y.; Ziker, J.P. Panelist for *Cultures of Ice* film review. [Virtual] Biology on Tap, Lansing MI, 2020.
95. Ungar, P.S. Paleoekologi primata: merekonstruksi pola dan perilaku makan di masa lalu. Virtual Scientific visit of the Faculty of Biology Universitas Nasional to the University of Arkansas special lecture, [Virtual] Jakarta, Indonesia, 2020.
96. Ungar, P.S. Bukti fosil untuk evolusi manusia. Virtual Scientific visit of the Faculty of Biology Universitas Nasional to the University of Arkansas special lecture, [Virtual] Jakarta, Indonesia, 2020.
97. Ungar, P.S. Evolution's bite: Reconstructing diet in human evolution. Boise State University Biological Sciences Department Seminar [Virtual], Boise, Idaho, 2020.
98. Ungar, P.S. The evolution of teeth: A half billion year odyssey! Advanced Education Programs in Oral and Maxillofacial Radiology & Prosthodontics, Stony Brook University School of Dentistry. [Virtual], 2021.
99. Ungar, P.S. Evolution's bite: Dental evidence for the diets of our distant ancestors. Kansas City University Division of Basic Sciences Seminar [Virtual], Joplin, Missouri, 2021.
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105. Ungar, P.S. Musings on the evolution of human diet, Department of Anthropology, University of Minnesota, Duluth [Virtual], 2021.
106. Ungar, P. S., "Dental anthropology and the "natural" state of oral health: An example from the last remaining hunter-gatherers in Africa," Monthly Study Group of the Academy of Interdisciplinary Dentofacial Therapy, Academy of Interdisciplinary Dentofacial Therapy, Academy of Interdisciplinary Dentofacial Therapy, Fayetteville, AR., 2021.
107. Ungar, P.S., Teaford, M.F., "Relationships between food choice and occlusal topography in platyrrhine primates from Para State, Brazil. International Primatological Society Annual Meeting invited symposium, Quito, Ecuador, 2022.
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109. Ungar, P.S. Teeth! Dental evidence for the diets of our distant ancestors. Central Washington University Museum of Culture and Environment, [Virtual], Ellensburg, Washington, 2022.
110. Myerholtz, L., Ungar, P.S. Dental microwear and Miocene paleocommunity ecology of primates from the Turkana Basin. Turkana Miocene Project Workshop. Lamont-Dougherty Geophysical Laboratory of Columbia University, Palisades, NY, 2022.
111. Pujiantari, P.; Delezene, L.; Teaford, M.F.; Plavcan, J.M.; Ungar, P.S. Canine microwear in relation to diet in four sympatric Sumatran primates. American Association of Biological Anthropologists invited symposium, Reno, NV, 2023.
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113. Ungar, P.S. What teeth can teach us about Arctic mammals: Hva tenner kan lære oss om pattedyr i Arktis, The Arctic University of Norway, Department of Arctic and Marine Biology Seminar, Tromsø, Norway, 2023.
114. Ungar, P.S.; Heskel, M.; Shushkov, A. Fennoscandia NNA project lightning talk. Arctic STEAM Summit. Hosted by Oregon State University (remote), 2023.
115. Ungar, P.S. Using tooth wear to document impacts of climate change on diets of Arctic mammals. Keynote address to the 2023 International Symposium on Biosurfaces, Biotribology and Bionic-tribology in Chengdu, China (funded invitation but delivered remotely due to US State Department Advisory), 2023.
116. Ungar, P.S. Using teeth to document impacts of climate change in the Arctic. Department of Paleontology lecture series, Eötvös Loránd University, Budapest, Hungary, 2023.

117. Ungar, P.S. Megközelítések a fosszilis emlősök étrendjének rekonstrukciójához. Hungarian Science Festival Paleontology Conference (invited keynote), Hungarian National Academy of Sciences, Budapest, Hungary, 2023.
118. Sponheimer, M.; Paine, O.C.; Ungar, P.S.; Lee-Thorp, J.A. From paucity to plenitude: Linking hominin diet, habitat, and nutrition. Presented at the Symposium: Kaye's Communities: Recognizing the Research, Teaching, and Mentorship of Kaye E. Reed, 2024 meeting of the American Association of Biological Anthropologists, Los Angeles, CA.
119. Ungar, P.S. Applied dental ecology: monitoring dietary responses of animals to a changing world today. Tooth wear and breakage patterns reflect diets of arctic foxes. Symposium in Honor of Richard F. Kay, Duke University, Durham NC, 2024.

Contributed presentations and conference abstracts

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94. Abella, E.F.; Grine, F.E.; Teaford, M.F.; Ungar, P.S. Dental microwear textures of an expanded sample of *Australopithecus africanus* from Sterkfontein, Member 4. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #64, 2017.
95. Algarni, A.; Ungar, P.; Lippert, F.; Martrinez-Mier, E.A.; Eckert, G.J.; Hara, A.T. Effect of tooth age on the presence and severity of dental hard-tissue conditions. Presented at The 64th Congress of the European Organisation for Caries Research, Oslo, Norway, 2017.
96. Burgman, J.H.E.; Manthi, F.K.; Plavcan, J.M.; Ward, C.V.; Ungar, P.S. Paleoenvironmental reconstruction at Kanapoi through use of rodent dental microwear. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #64, 2017.
97. Burgman, J.H.E.; West, H.; Ungar, P.S. Comparison of dental macrowear and microwear of three sympatric rodent species from southern Africa. PROCEEDINGS OF THE EUROPEAN SOCIETY FOR THE STUDY OF HUMAN EVOLUTION, 2017.
98. Crittenden, A.N.; Moonie, S.; Sorrentino, J. Ungar, P.S. Oral health among the Hadza foragers of Tanzania. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #64, 2017.
99. El Zaatari, S.; Grine, F.E.; Ungar, P.S.; Hublin, J.-J. Effects of technology on Upper Paleolithic human diet. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #64, 2017.
100. Peterson, A.S.; Grine, F.E.; Teaford, M.F.; Ungar, P.S. Dental microwear textures of *Paranthropus robustus* from Kromdraai, Drimolen, and an enlarged sample from Swartkrans. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #64, 2017.
101. Ungar, P.S.; Crittenden, A.N.; Rose, J.C. Linear enamel hypoplasia incidence in bush-dwelling and village Hadza from Tanzania. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #64, 2017.
102. Burgman, J.H.E.; West, H.; Ungar, P.S. Comparison of dental macrowear and microwear of three sympatric rodent species from southern Africa. PROCEEDINGS OF THE EUROPEAN SOCIETY FOR THE STUDY OF HUMAN EVOLUTION, 2017.
103. Algarni, A.A.; Lippert, F.; Ungar, P.S.; Eckert, G.J.; Gonzales-Cabezas, C.; Platt, J.A.; Hara, A.T. Interplay between tooth age and toothbrushing on erosive tooth wear susceptibility. Presented at The 66th Congress of the European Organisation for Caries Research, Copenhagen, Denmark, 2018.
104. Algarni, A.A.; Lippert, F.; Ungar, P.S.; Gonzales-Cabezas, C.; Platt, J.A.; Eckert, G.J.; Hara, A.T. Tooth Age Impact on Dental Erosion Susceptibility and Prevention. Annual meeting of the American Association for Dental Research, Fort Lauderdale, FL, 2018.
105. Constantino, P.; Ungar, P.S. Dental indicators of *Paranthropus* tooth function. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #66, 2018.

106. Grine, F.E.; Lee-Thorp, J.; Sponheimer, M.; Teaford, M.F.; Ungar, P.S.; Yang, D. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #66, 2018.
107. Jeffress, S.; Delezene, L.K., Ungar, P.S. Anterior dental microwear in four sympatric Sumatran primates. Unpublished presentation at the American Association of Physical Anthropologists Undergraduate Research Symposium, Austin, TX, 2018.
108. Nassim, N.; Delezene, L.K., Ungar, P.S. Dental microwear of Thule and Norse populations from Greenland. Unpublished presentation at the American Association of Physical Anthropologists Undergraduate Research Symposium, Austin, TX, 2018.
109. Ungar, P.S.; Teaford, M.F. Does dental functional morphology in platyrrhine primates reflect food type or proportion? AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #66, 2018. D
110. Delezene, L., Jeffress, S. A., Teaford, M. F., Ungar, P. S. (2019). Incisor microwear textures in four genera of Sumatran primates. Presented at the American Association of Physical Anthropologists Annual Meeting. Cleveland, Ohio, 2019.
111. Merceron, G.; DeSantis, L.; Ungar, P.S. Diet, grit and dental microwear textures: the facts. Presented at the American Association of Physical Anthropologists Annual Meeting. Cleveland, Ohio, 2019.
112. Teaford, M.F.; Laird, M.F.; Ross, C.F.; Taylor, A.B.; Ungar, P.S.; Vinyard, C.J. Dental microwear in laboratory primates: Insights into the complexity of dental microwear formation. Presented at the American Association of Physical Anthropologists Annual Meeting. Cleveland, Ohio, 2019.
113. Hlusko, L.I; Brasil, M.F.; Boissarie, J.R.; Clay, S.M.; Monson, T.A.; Schmitt, C.A.; Souron, A.; Takenaka, R.; Ungar, P.S.; Yoo, S.; Zeurcher, M.E. Insights from Genotype:Phenotype mapping the mammalian postcanine dentition. International Congress on Vertebrate Morphology. Prague, Czech Republic, 2019.
114. Hara, A.T.; Elkington-Stauss, D.; Ungar, P.S.; Fried, D.; Lipert, F.; Eckert, G.J.; Zero, D.T. 3d-surface texture characterization of in situ simulated erosive tooth wear lesions. Originally planned for presentation at the 67th ORCA European Organization for Caries Research Meeting, Cagliari, Sardinia, Italy, 2020. Physical conference canceled due to COVID-19, but abstracts published in CARIES RESEARCH 54:46 (Abstract 112), 2020.
115. Hara, A.T.; Elkington-Stauss, D.; Ungar, P.S.; Fried, D.; Lipert, F.; Eckert, G.J.; Zero, D.T. Assessment of in situ simulated erosive tooth wear by CP-OCT. Originally planned for presentation at annual meeting of the International Association for Dental Research, Washington, DC, 2020. Physical conference canceled due to COVID-19, but abstracts published in JOURNAL OF DENTAL RESEARCH 99 (Spec Iss A): 3241, 2020.
116. Curran, S.C; Terhune, C.; Croitor, R., Drăgușin, V.; Fox, D.L.; Garrett, N.; Ironside, L.B.; Petculescu, A.; Pobiner, B.; Robinson, C.; Robu, M.; Tanțău, I.; Ungar, P.; Werdelin, L. Paleoecology and Biochronology of Early Pleistocene sites in southern Romania. Presented at the 90th annual meeting of the American Association of Physical Anthropologists, virtual, 2021.

117. Teaford, M.F.; Ungar, P.S. Dental evidence for early hominin diets. Presented at the 91st annual meeting of the American Association of Biological Anthropologists, Denver, Colorado, 2022.
118. Estalrrich, A.; Sleptstova, A.; Ungar, P.S. Effective low-cost high-resolution replicas for light scanning and topographic analysis of dental crowns. Joint Meeting of the International Symposium on Dental Morphology and the International Association for Paleodontology. Frankfurt, Germany, 2022.
119. Ungar, P.S.; van Valkenburgh, B.; Peterson, A.; Sokolova, N.; Ehrich, D.; Fufachev, I.; Gilg, O.; Terekhina, A.; Volkovitskiy, A.; Sokolov, A. Tooth wear and breakage patterns reflect diets of arctic foxes. Sixth International Conference in Arctic Fox Biology, Longyearbyen, Svalbard, 2022.
120. Ziker, J.; Stammler, F.; Terekhina, A.; Volkovitskiy, A.; Mertens, K.; Wren, C.; Ivanov, V.Y.; Sokolov, A.; Ungar, P.; Ehrich, D.; Gilg, O.; Macias-Fauria, M.; Spiegel, M.P.; Zhou, W. Hessel, M.; Sheshukov, A.Y.; Liu, D.; Wang, J.; Griбанov, K.; Orekhov, P.; Valdayskikh, V.; Sokolova, N.; Dixon, A.; Sponheimer, M.; Sokovnina, S.; Peterson, A. Mechanisms of adaptation to climate change by indigenous Nenets reindeer herders in northern Siberia. Annual Meeting of the American Geophysical Union, Chicago, IL, 2022.
121. Towle, I.; Wewers, E.; Ungar, P.S.; Hara, A.T. Assessing Dentifrice abrasivity using microwear texture analysis. American Association for Dental, Oral, and Craniofacial Research, Portland, OR, 2023.
122. Fehringer, L.K.; Princehouse, P.; Rowan, J.; Uno, K.; Ungar, P.S. Dental microwear of late Paleogene/ Neogene primates from the Turkana Basin of Kenya. Presented at the 2024 meeting of the American Association of Biological Anthropologists, Los Angeles, CA.
123. Ziker, J.; Ivanov, V.; Ungar, P.S. et al. NNA Research: Interactions of natural and social systems with climate change and industrial development in Fennoscandia: Disturbance and Adaptation. Presented at the 2024 Navigating the New Arctic Community Meeting, Washington, DC.

HONORS AND AWARDS

- Election as Member. US National Academy of Sciences, 2024.
- OMNI Keeling/Hansen Climate Science Award, University of Arkansas, 2024.
- Appointment to Fellow. Polar STEAM: Education. Art. Science. 2023, 2024.
- Appointment as Dean's Fellow. University of Arkansas Honors College, 2023, 2017.
- Election as Member. American Academy of Arts and Sciences, 2022, inducted 2023.
- Collis Geren interdisciplinary faculty award, University of Arkansas, 2021.
- Fulbright Specialist. Appointment by the US State Department's Bureau of Educational and Cultural Affairs, 2020.

- Appointment to Fellow. Arkansas Academy of Computing, 2020.
- Honors College distinguished faculty fellow award, University of Arkansas, 2019.
- Hoyt Purvis Faculty Award for Service in International Education, University of Arkansas, 2019.
- Southeastern Conference faculty member of the year for the University of Arkansas, 2018.
- Published piece top *Scientific American* articles of the year (reprinted in 2018 compendium).
- Published piece top 20 *Scientific American* contributions of the year (reprinted in 2017 compendium).
- Appointment to Fellow. American Association for the Advancement of Science, 2012.
- American Publishers Award (PROSE) award for best book published (Biological Sciences Category) for *Mammal Teeth: Origins, Evolution, and Diversity*, 2010.
- Fulbright Specialist in Anthropology (to South Africa). Appointment by the US State Department's Bureau of Educational and Cultural Affairs, 2010.
- Appointment to Fellow. Johns Hopkins University Society of Scholars, 2008.
- J. William Fulbright College of Arts and Sciences Master Researcher Award. University of Arkansas, 2002.
- Appointment to Fellow. University of Arkansas Teaching Academy Award of Excellence and induction into the Academy, 2001.
- Distinguished Faculty Award for Research and Service. University of Arkansas Alumni Association, 2000.
- Mildred Trotter Prize. American Association of Physical Anthropologists, 1992.
- University of Wisconsin University-Wide Graduate Fellowship, 1985.
- Matthew J. Goldstein Award in Anthropology, SUNY Binghamton, 1985.
- Museum credits: Displays at the Smithsonian Institution, Pacific Science Center, Natural History Museum (Vienna), State Museum of Natural History (Stuttgart), and Perot Museum of Nature and Science.
- Broadcast media credits: Appearances in documentaries for Discovery Channel, Science Channel, BBC TV, and others plus countless radio appearances.
- Print media credits: *New York Times*, *Wall Street Journal*, *National Geographic*, *Science*, *Scientific American*, *the Atlantic*, *the Economist*, *US News & World Reports*, *Science News*, *New Scientist* and many others.

COURSES TAUGHT

University of Arkansas J. William Fulbright College of Arts and Sciences

- ANTH 1013 *Introduction to Biological Anthropology*
- ANTH 3433 *Human Evolution*
- ANTH 3923H *Honors Colloquium in Bioanthropology*
- ANTH/BIOL 4613, 5623 *Primate Adaptation and Evolution*
- HNRS 4903H *Teeth: Evolutions' Bite*
- HNRS 300VH *Climate Change Forum*
- HNRS 300VH/ENDY 603V *Arctic Climate Change*
- ANTH 5152/ENDY 6023 *African Paleoecology*
- ANTH/BIOL 5423 *Human Evolutionary Anatomy*
- ANTH/HUMN 3903/4483 *Natural History of South Africa* (Summer Study Tour)
- ANTH/BIOL/HUMN 3903/496V/4483 *Natural History of Tanzania* (Summer Study Tour)

Duke University Trinity College of Arts & Sciences and School of Medicine

BAA 180 *Current Topics in Biological Anthropology: Human Origins.*

Medical School: Human Gross Anatomy (laboratory instructor).

Johns Hopkins University School of Medicine

Clinically-Oriented Human Anatomy (laboratory instructor).

ADVISING

Postdoctoral advisees

2023-2025 Ruokuonuo Rose Yhome, Ph.D. Deccan College Post Graduate and Research Institute, Pune, India. Postdoctoral Project: Dietary behaviors of Chalcolithic and Iron Age populations through analysis of dental remains recovered from Harrapan, Chalcolithic, and Megalithic sites in India. Funded by the US State Department Fulbright Foundation.

2021-2025 Gerardo Celis, Ph.D. University of Florida, Gainesville. Postdoctoral Project: Interactions of natural and social systems with climate change, globalization, and infrastructure development in Yamal (Russian Arctic). Funded by the US National Science Foundation.

- 2021-2024 Almudena Maria Estalrich Albo, Ph.D. University of Cantabria, Spain. Postdoctoral Project: 3DFossilDiet: Tracing the ontogenetic evolution of diet and behavior in Neandertals and anatomically modern humans in the Franco-Cantabrian region. An integrative study of 3D tooth wear patterns. Funded by the European Union (Marie Curie Fellowship).
- 2003-2007 Robert Scott, Ph.D. (2004) University of Texas, Austin. Postdoctoral Project: Three-dimensional analysis of dental microwear in primates. Funded by the US National Science Foundation.
- 2003-2005 Gildas Merceron, Ph.D. (2003) University of Poitiers, France. Postdoctoral Project: Micro-Usure Dentaire, Alimentation, et Environnement de populations humaines du Paléolithique de France. Funded by la Fondation Fyssen.

Dissertations and theses directed

- 2024 Andrew Garrett Kirkpatrick. Dental microwear and the paleoecology of Pleistocene bovids from Ledi-Geraru, Ethiopia. Undergraduate Honors Thesis. Department of Anthropology, University of Arkansas.
- 2024 Camilla Kita. Establishing an objective, quantifiable method for detecting erosive tooth wear. Department of Biological Sciences, University of Arkansas.
- 2024 Elizabeth Wewers. Clinical assessment of erosive tooth Wear objective outcome measures. Department of Biological Sciences, University of Arkansas.
- 2024 Caroline Groves. Linking reindeer habitat and diet to dental microwear textures. Department of Biological Sciences, University of Arkansas.
- 2024 Harrison Lowe. Dental microwear differences between reindeer herding groups in Arctic Finland. Department of Anthropology, University of Arkansas.
- 2024 Anna Martens. Environmental effects on microwear of hyrax teeth. Department of Biological Sciences, University of Arkansas.
- 2024 Pearson Hafer. Incisor microwear of Arctic rodents as an indirect proxy of environmental change. Department of Health, Human Performance, and Recreation, University of Arkansas.
- 2023 Liam Zachary. Functional morphology of the platyrrhine humerus and talus: Implications for inferring locomotor behavior in extinct primates. PhD Dissertation, Department of Anthropology, University of Arkansas.
- 2023 Leah Myerholtz. Dental microwear of Miocene primates from the Turkana Basin of northern Kenya. MA Thesis. Department of Anthropology, University of Arkansas.
- 2022 Jenny Burgman. Rodent dental microwear texture analysis as a proxy for fine-scale paleoenvironment reconstruction. PhD Dissertation, Environmental Dynamics Program, University of Arkansas.

- 2022 Duru Erkan. Quantification of dental fissures through occlusal topography analysis. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.
- 2021 Putu Pujiantari. Canine microwear in relation to diet in Sumatran primates and African Great Apes. MA Thesis. Department of Anthropology, University of Arkansas.
- 2021 Jacob Purifoy. Molar mesowear of narrow-headed voles as a medium for assessing diet and habitat in an evolving Arctic. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.
- 2021 Lindsay Saylor. Incisor microwear of lemmings and voles as a possible proxy for ecological subzone in the Arctic. Undergraduate Honors Thesis. Department of Anthropology, University of Arkansas.
- 2021 Kaitlyn Puyer. Techniques for assessing dental caries and non-carious cervical lesions. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.
- 2021 Grace Roberts. Undergraduate Honors Thesis. Evaluating population-level differences in dental morphology and wear patterns between genetically distinct human samples. Department of Biological Sciences, University of Arkansas.
- 2020 Dylan Elkington-Stauss. Detection and categorization of erosive tooth wear (ETW) lesions. Undergraduate Honors Thesis. Department of Anthropology, University of Arkansas.
- 2020 James Needy. A new method for characterizing and comparing non-carious cervical lesions in dental patients. Undergraduate Honors Thesis. Department of Biomedical Engineering, University of Arkansas.
- 2019 Josephine Dubois. Dental microwear texture analysis of canids from Předmostí provides insight regarding when *Canis familiaris* domestication began. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.
- 2019 Anna Gracie Engelkes. A comparison of microwear of non-carious cervical lesions based on dentifrice abrasiveness and toothbrush stiffness. Department of Biological Sciences, University of Arkansas.
- 2019 Lydia Brett Ironside. Dental microwear texture analysis of early Pleistocene cervids from the Oltet River Valley of Dacic Basin, Romania. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.
- 2019 Anna Moriarty. Dental topography and microwear texture in *Macaca fascicularis*, *Trachypithecus cristatus*, *Procolobus badius*, and *Cercocebus atys*. Undergraduate Honors Thesis. Department of Anthropology, University of Arkansas.
- 2019 Taylor Spillers. Comparison of incisor microwear in *Pan troglodytes* and *Pan paniscus*. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.

- 2018 Naseer Nasseem. Dental microwear of Norse and Thule Eskimos from Greenland. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.
- 2018 Heidi West. Effects of habitat and taxon specificity on gross enamel wear of rodents from southern Africa. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.
- 2018 Tarahn Turner. Evaluating relationships between dental topography and microwear texture analysis in chimpanzees and gorillas. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.
- 2018 Jack Guo. Comparison of dental topography of grazing and browsing ruminants. Undergraduate Honors Thesis. Department of Anthropology, University of Arkansas.
- 2018 Brenden Manley. Examination of dental microwear of late Miocene giraffids from Langabanweeg, South Africa. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.
- 2018 Charles Fuller. Comparison of dental microwear among varanid reptiles with different diets. Undergraduate Honors Thesis. Department of Anthropology, University of Arkansas.
- 2017 Holly Alker. Revisiting a seminal study on dental microwear concerning hyrax species, *Heterohyrax brucei* and *Procavia johnstoni*. Undergraduate Honors Thesis. Department of Anthropology, University of Arkansas.
- 2017 Claire Hartgrove. Evaluating the relationship between dental topographic analysis and dental microwear texture analysis in *Sapajus apella*. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.
- 2017 Alexandra Peterson. Dental microwear of an expanded sample of *Paranthropus robustus*. MA Thesis. Department of Anthropology, University of Arkansas.
- 2016 Salvatore Caporale. Rodent Dental Microwear as Environmental Proxy: Gnawing Away at the Problem of Wear Etiology. MA. Thesis. Department of Anthropology, University of Arkansas.
- 2015 Mikiko Joiner. Comparison of microwear on rodent molars from differing species and a wide range of environments. Undergraduate Honors Thesis. Department of Biological Sciences, University of Arkansas.
- 2014 Melissa Zolneirz. Tempo and mode of domestication during the Neolithic Revolution: Evidence from dental mesowear and microwear of sheep. Ph.D. Dissertation. Department of Anthropology, University of Arkansas.
- 2014 Ann Walcutt. Taxonomic and seasonal variation between extant hyracoids based on dental microwear texture analysis. MA Thesis, Department of Anthropology, University of Arkansas.

- 2014 Anna Ragni. Effects of instrumentation on dental microwear textures: Reanalysis and augmentation of an early hominin sample. MA Thesis, Department of Anthropology, University of Arkansas.
- 2014 Margaret Frost. Gross enamel wear of the molars of *Rhabyomys pumilio* and the effects of different environments of South Africa. Undergraduate Honor's Thesis, Department of Anthropology, University of Arkansas.
- 2013 Charles Withnell. Shew incisor dental microwear. Useful as a paleoenvironmental reconstruction proxy? Undergraduate Honor's Thesis, Department of Anthropology, University of Arkansas.
- 2013 Mariel Williams. Molar microwear from four populations of Brazilian *Cebus apella*. Undergraduate Honor's Thesis, Department of Anthropology, University of Arkansas.
- 2012 Jessica Scott. Dental microwear of Plio-Pleistocene bovids from eastern African: Implications for paleoenvironmental dynamics and human evolution. Ph.D. Dissertation. Department of Anthropology, University of Arkansas.
- 2012 Emily Fitzgerald. A study of the dental topography of the wear and tooth loss in ring-tailed lemurs with relevance to implications of dental topography of other species. Undergraduate Honor's Thesis, Department of Anthropology, University of Arkansas.
- 2012 Andrea Riemenschneider. A Topographic Study of Dental Wear in Ring-Tailed Lemurs (*Lemur catta*). Undergraduate Honor's Thesis, Department of Anthropology, University of Arkansas.
- 2012 Jackson Spradley. Analysis of Intra-Tooth Variation of Dental Microwear in *Macropus rufus*. Undergraduate Honor's Thesis, Department of Anthropology, University of Arkansas.
- 2011 Kristin Krueger. Incisor microwear and paramasticatory behavior of Neandertals. Ph.D. Dissertation. Department of Anthropology, University of Arkansas.
- 2011 Brian Head. Dental topographic analysis of lemurs from Beza Mahafaly, Madagascar. MA Thesis, Department of Anthropology, University of Arkansas.
- 2008 Zachary Klukkert. Dental evidence for dietary distinctions within the genus *Pan*. MA Thesis, Department of Anthropology, University of Arkansas.
- 2008 Jon Bunn. Dental topographic analysis of four sympatric monkey species from West Africa. Undergraduate Honor's Thesis, Department of Anthropology, University of Arkansas.
- 2008 Renata Shelton. Dental topographic analysis of *Alouatta* and *Cebus*. Undergraduate Honor's Thesis, Department of Anthropology, University of Arkansas.
- 2007 Christian Matthew Carter. Dental topographic analysis of the molar teeth of Nadena and Caddoan Amerinds from Arkansas. MA Thesis, Department of Anthropology, University of Arkansas.

- 2007 Jessica Scott. Dental microwear texture analysis of subfossil lemurs from Madagascar. MA Thesis, Department of Anthropology, University of Arkansas.
- 2007 Francis Kirera. GIS analysis and taphonomy of Plio-Pleistocene vertebrate fossil localities in the northern Turkana Basin, Kenya, PhD Dissertation, Environmental Dynamics Program, University of Arkansas.
- 2005 Sarah Taylor. Effect of wear on tooth function in orangutans. Undergraduate Honor's Thesis, Department of Anthropology, University of Arkansas.
- 2004 Blaine Schubert. Paleodiets of bovids from Makapansgat Limeworks Cave, South Africa, Based on mesowear and microwear. Ph.D. Dissertation, Environmental Dynamics Program, University of Arkansas.
- 2002 John Dennis. Dental topography of *Alouatta palliata* (the Mantled Howling monkey. MA Thesis, Department of Anthropology, University of Arkansas.
- 2002 Francis Kirera. A dental topographic analysis of African ape occlusal morphology. MA Thesis, Department of Anthropology, University of Arkansas.
- 2002 Erica Findley. Effects of enclosure type on aggressive behavior in captive chimpanzees. Undergraduate Honor's Thesis, Department of Biological Sciences, University of Arkansas.
- 2001 Joseph Nigro. Using GIS to map the early hominid site of Swartkrans, Gautang Province, South Africa. MA Thesis, Department of Anthropology, University of Arkansas.
- 2001 Elizabeth Weiss. Remodeling of the humerus in response to environmental stress in Amerindians. Ph.D Dissertation, Environmental Dynamics Program, University of Arkansas.
- 2001 Brandon Wheeler. Sex differences in prehensile tail use in the mantled howling monkey *Alouatta palliata*. Undergraduate Honor's Thesis, Department of Anthropology, University of Arkansas.
- 2000 Kelly Sturtevent-Murdick. Effects of Environment on Aggression in Captive Chimpanzees at the Saint Louis Zoo. MA Thesis, Department of Anthropology, University of Arkansas.
- 2000 Shannon Nickerson. Effects of Environment on Aggression in Captive Chimpanzees at the Little Rock Zoo. MA Thesis, Department of Anthropology, University of Arkansas.
- 1998 Lucy Flynn Zuccotti. Modeling Primate Occlusal Morphology Using Geographic Resources Analysis Support System Software. MA Thesis, Department of Anthropology, University of Arkansas.
- 1998 Jennifer Bax. Labial Incisor Microwear in Four Modern Human Groups: Implications for Handedness in Neandertals. MA Thesis, Department of Anthropology, University of Arkansas.

1998 Rebecca Lamascus. 3D Analysis of Primate Teeth Using Dental Morphometrics. Undergraduate Honor's Thesis, Department of Anthropology, University of Arkansas.

PhD and MA advisory committees/external examiner

2024 Molly Militello. The role of the patterning cascade model in human mandibular premolar variation. MA Thesis, Department of Anthropology, University of Arkansas.

2022 Joshua Porter. Reconstructing bison and mammoth migration during the late Pleistocene and early Holocene of central Texas using stable isotopes. MA Thesis. Department of Anthropology, University of Arkansas.

2021 Ruokuonuo Yhome. Microwear Analysis of Human Dentition recovered from Jotsoma, Leshemi, Ranyak Khen and Rikhelüwong sites, Nagaland. Ph.D. Dissertation. Department of Archaeology, Deccan College, Pune, India.

2021 Keegan Selig. The Use of Dental Topographic Analysis in the Examination of Microsypid (Mammalia, ?Primates) Evolution, Dietary Change, and Intraspecific Variation. Department of Anthropology, University of Toronto. Toronto, Canada.

2021 Caitlyn Yoakum. An assessment of the neurovascular structures of the trigeminal nerve and their relationship to diet in primates. PhD Dissertation. Department of Anthropology, University of Arkansas.

2018 Sally Averitt-Hubbard. Interpersonal and Ideological Kindness: A Biocultural Approach. MA Thesis. Department of Anthropology, University of Arkansas.

2018 Diana Chen. Got Bread Fruit? Marshallese Food and Culture in Springdale, Arkansas. PhD Dissertation. Environmental Dynamics Program, University of Arkansas.

2018 Ashley Shidner. Growing Up in Tell el-Amarna: An Examination of Growth and Non-specific Stress Indicators in New Kingdom Children. PhD Dissertation. Department of Anthropology, University of Arkansas.

2018 Jackie Smilg-Berger. Application of CT imaging technologies to fossil-bearing rocks from South African early hominin sites. PhD Dissertation. Evolutionary Studies Institute, University of the Witwatersrand, Johannesburg, South Africa.

2018 Ignacio Lazagabaster. Evolution and paleoecology of Pliocene Suidae (Artiodactyla, Mammalia) in the lower Awash Valley (Afar, Ethiopia): implications for hominin evolution and paleoenvironment. PhD Dissertation. Institute for Human Origins, Arizona State University.

2018 Amnah Algarni. Age effect on presence, susceptibility, and treatment of erosive tooth wear. PhD Dissertation. University of Indiana School of Dentistry.

2017 Jing Xia. Dental biotribology and nanoscale dental microwear by materials softer than dental enamel. PhD Dissertation. Institute of Biotribology. Southwest Jiaotong University, Chengdu, China.

- 2016 Li-Cheng Hua. Dental biotribology and microstructure of bamboo rats and humans. PhD Dissertation. Institute of Biotribology. Southwest Jiaotong University, Chengdu, China.
- 2016 Christopher Stiegler. Gastrointestinal health as a stimulus for Native American attraction medicinal Asteraceae and further implications for human evolution. MA Thesis, Department of Anthropology, University of Arkansas.
- 2016 Solomon Zewdie. Reconstructing the dietary adaptations, habitat preference and paleoenvironment of the middle Pleistocene Cercopithecidae fossils and its implication for hominin evolution in the Awash Valley, Afar Region, Ethiopia. MA Thesis, College of Natural Sciences, Addis Ababa University.
- 2015 Amy Shapiro. Variation in dental microwear textures and dietary variation in African Old World Monkeys (Cercopithecidae). PhD Dissertation, Arizona State University.
- 2014 Seth Boren. 3D Morphometric analysis of the primate elbow joint. MA Thesis, Department of Anthropology, University of Arkansas.
- 2013 Andrea Green. Greater sage-grouse (*Centrocercus urophasianus*) habitat selection and stable isotope analysis of fecal material, Department of Biological Sciences, University of Arkansas.
- 2013 Ian Smith. MA Thesis, Department of Anthropology, University of Arkansas.
- 2013 Kat Kutchins. MA Thesis, Department of Anthropology, University of Arkansas.
- 2012 Rebecca Hodgins. Trauma at Akhetaten (Tell El-Amarna): interpersonal violence or occupational hazard. MA Thesis, Department of Anthropology, University of Arkansas.
- 2011 Christine Steininger. The Dietary Behaviour of Early Pleistocene Bovids from Cooper's Cave and Swartkrans, South Africa. PhD Dissertation. Institution for Human Evolution. University of the Witwatersrand, Johannesburg.
- 2009 William Schaffer. A biomechanical assessment of ancient Egyptian long bones from the Amarna South Tombs Cemetery. MA Thesis, Department of Anthropology, University of Arkansas.
- 2007 Sireen El-Zaatari. Dental microwear texture analysis in Neandertals. PhD Dissertation, Stony Brook University.
- 2006 Ambre Loske Brewster. Effects of grouping and placement of food enrichment items effect foraging time, activity levels, and aggression in captive primates. MA Thesis, Department of Biological Sciences, University of Arkansas.
- 2006 Sarah Katherine Hays. Weekend time travelers: Exploring heritage and authenticity at Civil War reenactments. MA Thesis, Department of Anthropology, University of Arkansas.

- 2004 Jessica Hope Amason. Tales from the gateway: tensions, tastes, and tourists in Gatlinburg, Tennessee. MA Thesis, Department of Anthropology, University of Arkansas.
- 2003 Gildas Merceron. Etude qualitative de la micro-usure dentaire des primates et des ongulés de Méditerranée orientale: implications sur les variations environnementales au cours du Miocene supérieure. PhD Dissertation, University of Poitiers, France.
- 2003 Amanda Groner. Ozark soundscapes. MA Thesis, Department of Anthropology, University of Arkansas.
- 2003 Stacey Gustafsen. Continuing journeys of a beloved icon: Afro-Cubans, Santeria and the virgin Mary. MA Thesis, Department of Anthropology, University of Arkansas.
- 2003 Rema Persad. Comparative analysis of behavior of captive gibbons and langurs at the Tulsa Zoo. MA Thesis, Department of Biological Sciences, University of Arkansas.
- 2003 Christine Steininger. Taxonomic affinity of a new hominin specimen from Coopers Cave, South Africa. MSc Thesis, University of the Witwatersrand, Johannesburg, South Africa.
- 2002 Teresa Iwaki. Dental microwear of Mississippian Culture native Americans. MA Thesis, Department of Anthropology, University of Arkansas.
- 2001 Kim Williams. Dental remains and bioarcheology of the Sa'ad Site, Jordan. MA Thesis, Department of Anthropology, University of Arkansas.
- 2000 John Schaefer. Lebanese Transnationalism in Ghana: History and Identity. MA Thesis, Department of Anthropology, University of Arkansas.
- 1999 Jennifer Boudreaux. Another Look at Cedar Grove (3LA97): A Re-analysis of an Historic African American Cemetery. MA Thesis, Department of Anthropology, University of Arkansas.
- 1999 Emma Smith. A Functional Analysis of Molar Morphometrics in Living and Fossil Hominoids Using 2-D Digitized Images. Ph.D. Dissertation, Department of Anthropology, University of Toronto.
- 1999 James Strait. Tool Efficiency and Lithic Utilization at the Helb Site 39CA208. MA Thesis, Department of Anthropology, University of Arkansas.
- 1998 Rita Carroll. Sociopolitical organization of upper Nodena (3M54) from a Mortuary Perspective. MA Thesis, Department of Anthropology, University of Arkansas.
- 1996 Victor Galan. Form and function of Helb Side Scrapers. MA Thesis, Department of Anthropology, University of Arkansas.
- 1995 Lee Manning. Canine Microwear in Early Hominids. BSc Thesis, Department of Archaeology, University of Capetown.

Synopsis of select internal service

- Anthropology junior faculty mentor (2022-)
- Curriculum and Program Committee member (2024-)
- Honors college fellowship application reader and evaluator (2021).
- Grant proposal evaluator, SURF/SILO University of Arkansas Honors College (2020-2023).
- Evaluation committee for the University of Arkansas SEC Faculty of the year nomination (2021).
- Adopt-a-Prof program participant, Hotz Hall, University of Arkansas (2017-2022).
- Committee member, Hoyt Purvis Award selection Committee (2020).
- Host Family, iFriend Program, Office of International Students and Scholars (2010-2023).
- Chair, Biological Anthropology Search Committee, Department of Anthropology, University of Arkansas (2019)
- University of Arkansas Alumni engagement activity (participated in hosting alumni events in Singapore, Kuala Lumpur, Banda Aceh, Jakarta and Yogyakarta) (2019).
- Director, Environmental Dynamics Graduate Program (MS and PhD), Graduate School, University of Arkansas (2016-)
- Chair, Department of Anthropology, Fulbright College of Arts and Sciences, University of Arkansas (2008-2016)
- Provost's Signature areas committee, University of Arkansas (2017-2019)
- Chancellor's Discovery and Innovation Fund Awards Panel, University of Arkansas (2017-2018)
- Chair, Provost Search Committee, University of Arkansas (2016)
- Steering Committee member, Environmental Dynamics Doctoral Program, Graduate School, University of Arkansas (2008-2016)
- Interview panelist for Fellowship Weekend, Honors College, University of Arkansas (2015, 2019-2021)
- Panelist for Research Panel Program, Honors College, University of Arkansas (2014, 2015)
- Dean Search Committee, Fulbright College of Arts and Sciences, University of Arkansas (2014)
- Workshop panelist and presenter for UA Teaching Academy New Faculty Orientation (2014)
- Panelist for Natural Science Grant Proposal Writing Workshop, Fulbright College of Arts and Sciences, University of Arkansas (2014)
- Faculty advisor to Indonesian Students Association, University of Arkansas (2007-2012)

- Chair, Distinguished and University Professor assessment committee for Fulbright College (2010)
- University Social Sciences Core Assessment Committee, University of Arkansas (2008)
- University Core Curriculum Science Core Assessment Committee, University of Arkansas (2008)
- Personnel Committee, Department of Anthropology, Fulbright College of Arts and Sciences, University of Arkansas (2001-2008)
- Interdisciplinary Internal Review Board (IRB) committee, Fulbright College of Arts and Sciences, University of Arkansas (2006)
- Undergraduate Research Grants Evaluation Committee for the Honor's College, University of Arkansas (2005).
- Annual Baum Teaching Workshop Organizing Committee, University of Arkansas (2005)
- Fulbright Hays South Africa Trip Pre-departure Workshop Lecture (2003, 2004)
- University Day Presentations, University of Arkansas (2001, 2002, 2004)
- Director of Graduate Studies, Department of Anthropology, Fulbright College of Arts and Sciences, University of Arkansas (1998-2003)
- Asian Studies Committee, Fulbright College of Arts and Sciences, University of Arkansas (1996-2002)
- Faculty Advisor to the Anthropology Student Society Department of Anthropology, Fulbright College of Arts and Sciences, University of Arkansas (1998-2002)
- Annual Baum and Arkansas Alumni Association Faculty Awards Evaluation Committee (2002)
- Baum Teaching Grant Review Panel (2002)
- Cooperative Agreement written and signed between the University of Arkansas and The University of the Witwatersrand, Johannesburg, South Africa (2002).
- Physical Anthropology Search Committee, Department of Anthropology, Fulbright College of Arts and Sciences, University of Arkansas (2000)
- Gallery lecture at the University of Arkansas Museum (2000).
- Sturgis Study Abroad Awards Committee, Fulbright College of Arts and Sciences, University of Arkansas (1999)
- Sigma Xi Research Society, University of Arkansas, Anthropology Department Liaison (1996-1999)
- Sigma Xi Research Society, University of Arkansas, Head of Membership Committee (1996-1997)
- Curriculum Committee, Department of Anthropology, Fulbright College of Arts and Sciences, University of Arkansas (1996)

External committee work and advisory boards

- National Council for Science and the Environment Leader's Alliance Executive Committee member, 2020-2022
- *Nature* Journal Readers Advisory Panel, 2008-2010.
- NSF Senior Grants Advisory Panel, Biological Anthropology Program, 2008-2010.
- Annual Student Prize Committee. American Association of Physical Anthropologists. 1998.

Editorships

- Specialty Chief Co-Editor. *Frontiers in Mammal Science: Evolution, Anatomy and the Palaeosciences Section*. (2022-).
- Associate/Academic Editor. *Biosurface and Biotribology* (2014-), *Surface Topography: Metrology and Properties* (2013-), *Primates* (2010-), *PLoS One* (2009-14), *Journal of Human Evolution* (2007-2010), *American Journal of Primatology* (2002-04), *American Journal of Physical Anthropology* (1997-2002).
- Editor-in-Chief. *Physical Anthropology* (Official Newsletter of the American Association of Physical Anthropologists) (2000-07).

Meetings, symposia and journal special issues organized

- 2020 (with Valeriy Ivanov and John Ziker). Navigating the New Arctic Workshop originally slated to be held at the Arctic Research Station, Labytnangi, Russia (virtual).
- 2018 (with Thomas Diekwich). Southeastern Conference Craniodental Science Slam Workshop held at Texas A&M College of Dentistry, Dallas, Texas.
- 2017 (with Zhong Rong Zhou). Dental biosurface and biotribology Workshop held at Southwest Jiaotong University, Chengdu, China.
- 2016 (with Adrian Evans). Exposing the past: What surfaces and their measurement can teach us about extinct species and the lives of ancient peoples. Published in SURFACE TOPOGRAPHY: METROLOGY AND PROPERTIES.
- 2014 (with Larisa DeSantis). Inferring diet and dental function from dental microwear textures. Workshop held at the 2014 Annual Meeting of the Society of Vertebrate Paleontology, Berlin Germany.
- 2012 (with Jerry Rose and John Sorrentino). Evolution of human teeth and jaws: Implications for dentistry and orthodontics. Catalysis meeting held at the National Evolutionary Synthesis Center (NESCent), Durham, NC.

- 2010 (with Frank Cuzzo and Michelle Sauter). Dental Ecology: How Teeth Respond to the Environment. Held at the 2010 Annual Meeting of the American Association of Physical Anthropologists, Albuquerque.
- 2009 (with Matt Sponheimer). The Evolution of Human Diets. Held at the 2009 Annual Meeting of the American Association for the Advancement of Science, Chicago.
- 2007 (with Mark Purnell). Dental microwear and the evolving relationship between form and function. Held at the 8th International Congress on Vertebrate Morphology. Paris, France.
- 2004 (with Matt Sponheimer, Kaye Reed, and Julia Lee-Thorp). Early Hominin Paleoecology Workshop. Held in Boulder, Colorado. Funded by the US National Science Foundation.
- 2003 The Evolution of Human Diet: the Known, the Unknown and the Unknowable. Held at the University of Arkansas and Eureka Springs Arkansas. Funded by the Alfred P. Sloan Foundation.
- 1998 (with Mark Teaford). The Evolution of Human Diet. Held at the 14th International Congress on Anthropological and Ethnographic Sciences. Williamsburg, Virginia.
- 1992 (with Robert Pastor). New Perspectives and Approaches to Dental Microwear Analysis in Human and Nonhuman Primates: The potentials and limitations (Sponsored by the Association of Dental Anthropologists). Held at the 1994 Annual Meeting of the American Association of Physical Anthropologists, Denver.

Other service activities

- Stony Brook University, BS in Human Evolutionary Biology Program Review, 2013.
- Hunter College (City University of New York) Anthropology Department Review, 2013.
- External tenure and promotion case reviews (approximately 20)
- Grant reviews (approximately 4/year for NSF, Leakey Foundation, etc)
- Paper reviews (approximately 12/year for numerous general science and trade journals)