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CURRICULUM VITAE

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Education:

- 1992 Ph.D. Anthropological Sciences. Stony Brook University. Dissertation title:
Incisor Microwear and Feeding Behavior of Four Sumatran Anthropoids.
- 1990 M.A. Anthropology. Stony Brook University.
- 1985 B.A. (with Honors) Anthropology. Binghamton University.

Professional Employment:

- 2008-** *Departmental Chairperson.* Department of Anthropology. Fulbright College of
Arts and Sciences, The University of Arkansas.
- 2003-** *Professor.* Department of Anthropology. Fulbright College of Arts and Sciences,
The University of Arkansas.
- 2002-** *Adjunct Faculty.* Department of Biological Sciences. Fulbright College of Arts
and Sciences, The University of Arkansas.
- 2001-** *Honorary Research Fellow.* Institute of Human Evolution. School of
Geosciences. University of the Witwatersrand, Johannesburg.
- 1999-2003 *Associate Professor.* Department of Anthropology. Fulbright College of Arts
and Sciences, The University of Arkansas.

- 1995-1999 **Assistant Professor.** Department of Anthropology. Fulbright College of Arts and Sciences, The University of Arkansas.
- 1993- 1995 **Research Associate.** Department of Biological Anthropology and Anatomy. Duke University Medical Center.
- 1992-1993 **Postdoctoral Fellow.** Department of Cell Biology and Anatomy. The Johns Hopkins University School of Medicine.

Professional Society Memberships:

American Association of Physical Anthropology, Dental Anthropology Association, Sigma Xi Scientific Research Society, Phi Beta Kappa.

RESEARCH

Interests:

Evolution of human diet, human origins, primate paleoecology, mammalian dental functional anatomy, dental microwear, feeding ecology of living primates, mammalian community ecology, paleontological applications of Geographic Information Systems technology and scale-sensitive fractal analyses.

Experience:

- 1988-2007 **Museum research.** I have conducted research at the following museums/collections: American Museum of Natural History (New York), US National Museum of Natural History, Smithsonian Institution (Washington, DC), Academy of Natural Sciences (Philadelphia), 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), Geology Museum of the Aristotle University of Thessaloniki (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), National Museum of Ethiopia (Addis Ababa), Transvaal Museum (Pretoria, South Africa), Cleveland Museum of Natural History, Royal Museum for Central Africa (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), South African Museum (Cape Town), University of Minnesota Anthropology Collections (Minneapolis), Staatliches Museum für Naturkunde (Karlsruhe, Germany), University of Arkansas Museum (Fayetteville, Arkansas).

- 1987-2002 ***Paleontological research.*** GIS project coordinator, Palaeoanthropological Unit for Research and Exploration research in Gauteng Province, South Africa (Plio-Pleistocene hominin site of Swartkrans and others), GIS project coordinator, Free State Province, South Africa and Botswana paleoanthropological survey (search for Plio-Pleistocene fossil sites), Co-director of 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).
- 1988-1998 ***Primatological research.*** Director of research on naturalistic studies in Indonesia (*Hylobates lar*, *Macaca fascicularis*, *Pongo pygmaeus*, *Presbytis thomasi*), and Venezuela (*Alouatta seniculus*, *Cebus olivaceus*). Team member/Co-P.I. on project in Costa Rica (*Alouatta palliata*).
- 1989-1990 ***Computer research.*** 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.
- 1981-1985 ***Archaeological research.*** 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).

Grants:

- 2009-2010** ***Chief Technology Officer.*** National Institutes of Health SBIR Grant. “A Non-Invasive Method to Distinguish Melanomas from Benign Skin Lesions” (Founding partner and Chief Technology Officer in DermaTex, LLC, PI Zachary Klukkert).
- 2008-2010** ***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).
- 2003-2008** ***Principal Investigator.*** National Science Foundation. “Collaborative Research: Three-dimensional analysis of dental microwear in primates” (with Chris Brown, Collaborator PI, Alan Walker and Mark Teaford, Co-Principal Investigators).

- 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 and Claudia Bailey, Andy Proctor, and Richard Ulrich, Co-Principal Investigators).
- 2001-2004 **Senior Personnel.** National Science Foundation. “Ecology of the Mammalian Fauna from Makapansgat Limeworks, South Africa”. (with Matt Sponheimer, Principal Investigator and Julia Lee-Thorp and Kaye Reed, Senior Personnel).
- 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, M. Williams, B. Pillans, R. Gargett, Chief Investigators, R. Patnaik, T. Cerling, L. Flynn, Partner Investigators and D. Pilbeam, P. Andrews and C. Groves, Associate Investigators).
- 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 and Kenneth Glander and Mary Maas, Co-Principal Investigators).
- 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*".

Published Books and Book Contracts:

1. **Ungar, P.S.**; Teaford, M.F. (eds) HUMAN DIET: ITS ORIGIN AND EVOLUTION. London and Westport, CT., Bergen & Garvey, 206 pp. 2002.
2. **Ungar, P.S.** (ed) EARLY HOMININ DIETS: THE KNOWN, THE UNKNOWN AND THE UNKNOWABLE. New York, Oxford University Press, 413 pp. 2007.
3. Sponheimer, M.; **Ungar, P.**; Reed, K.; Lee-Thorp, J. (eds). EARLY HOMININ PALEOECOLOGY. Under contract with The University of Colorado Press, manuscript in preparation (expected publication 2009).
4. **Ungar, P.S.** THE ADAPTIVE RADIATION OF MAMMALIAN TOOTH FORM. Under contract with The Johns Hopkins University Press, manuscript in preparation (expected publication 2009).

Published Articles:

1. **Ungar, P.S.** Incisor microwear and feeding behavior in *Alouatta seniculus* and *Cebus olivaceus*. AMERICAN JOURNAL OF PRIMATOLOGY 20:43-50, 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, 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, 1991.
4. **Ungar, P.S.** Dental evidence for diet in primates. *ANTHROPOLOGIAI KÖZLEMÉNYEK* 34:141-155, 1992.
5. **Ungar, P.S.** Incisor microwear of Sumatran anthropoid primates. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* 94:339-363, 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, 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, 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, 1995.
9. **Ungar, P.S.** Fruit preferences of four sympatric primate species at Ketambe, northern Sumatra, Indonesia. *INTERNATIONAL JOURNAL OF PRIMATOLOGY*, 16:221-235, 1995.
10. **Ungar, P.S.** A semiautomated image analysis procedure for the quantification of dental microwear II. *SCANNING* 17:57-59, 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, 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, 1995.
13. **Ungar, P.S.** Les dietes humanes: els premers 5,99 milions d'anys. *COTA ZERO*, 12:28-46, 1996.
14. **Ungar, P.S.** Dental Microwear of European Miocene catarrhines: evidence for diets and tooth use. *JOURNAL OF HUMAN EVOLUTION*, 31:335-366, 1996.
15. **Ungar, P.S.** Feeding height and niche separation in sympatric Sumatran anthropoids. *FOLIA PRIMATOLOGICA*, 67:163-168, 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, 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, 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, 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, 1997, pp. 131-151.
20. **Ungar**, P.S. Mapping Jordan's Deserts. *NATIONAL CENTER FOR RESOURCE INNOVATIONS-SOUTHWEST NEWS* (Spring, 1997), p. 4., 1997.
21. **Ungar**, P.S.; Fennell, K.J.; Gordon, K.; Trinkaus, E. Neandertal incisor bevelling. *JOURNAL OF HUMAN EVOLUTION*. 32:407-421, 1997.
22. Rose, J.C.; **Ungar**, P.S. Gross dental wear and Dental Microwear in Historical In *DENTAL ANTHROPOLOGY: FUNDAMENTALS, LIMITS, PROSPECTS*. Alt, K.W.; Rosing, F.W.; Teschler-Nicola, M., eds Stuttgart, Gustav-Fischer, 1998, pp. 349-386.
23. **Ungar**, P.S. Dental allometry, morphology and wear as evidence for diet in fossil primates *EVOLUTIONARY ANTHROPOLOGY* 6:205-217, 1998.
24. 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, 1998.
25. 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, 1999.
26. **Ungar**, P.S.; Beaupre, S. Feeding adaptations II: The Vertebrates. *ENCYCLOPEDIA OF VERTEBRATE PALEONTOLOGY*. Singer, R, ed. London, Fitzroy Dearborn Publishers, 1999, Volume 1, pp. 465-473.
27. **Ungar**, P.S.; Spencer, M.A. Incisor microwear, diet and tooth use in three Amerindian populations. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* 109:387-396, 1999.

28. Churchill, S.E.; Brink, J.S.; Berger, L.R.; Hutchison, R.A.; Rossouw, L.; Stynder, D.; Hancox, P.J.; Brandt, D.; Woodborne, S.; Loock, J.C.; Scott, L.; **Ungar**, P.S. Erfkroon: a new Florisian fossil locality from fluvial contexts in the western Free State, South Africa. *SOUTH AFRICAN JOURNAL OF SCIENCE* 96:161-163, 2000.
29. Spencer, M.A.; **Ungar**, P.S. Craniofacial morphology, diet and incisor use in three Amerind populations. *INTERNATIONAL JOURNAL OF OSTEOARCHAEOLOGY* 10:229-241, 2000.
30. Teaford, M.F.; **Ungar**, P.S. Diet and the evolution of the earliest human ancestors. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, USA*, 97: 13506-13511, 2000.
31. **Ungar**, P.S.; Williamson, M.E. Exploring the effects of tooth wear on function: a preliminary study of dental topography in *Gorilla gorilla*. *PALEONTOLOGICA ELECTRONICA*, 3 (1): 18pp., 2000.
32. **Ungar**, P.S.; Grine, F.E.; Teaford, M.F.; Pérez-Pérez, A. Interproximal grooving on a fossil hominin tooth from Olduvai Gorge. *ARCHIVES OF ORAL BIOLOGY*, 46: 285-292, 2001.
33. **Ungar**, P.S.; Teaford, M.F. The dietary split between apes and the earliest human ancestors. In *HUMANITY FROM AFRICAN NAISSANCE TO THE COMING MILLENIA*. Tobias, P.V.; Rath, M.; Moggi-Cecchi, J.; Doyle, G.A., eds. Florence, Firenze University Press, pp. 337-352, 2001.
34. Wheeler, B. and **Ungar**, P.S. Congruence of tail use behaviors between male and female mantled howling monkeys (*Alouatta palliata*). *FOLIA PRIMATOLOGICA*. 72, 292-297, 2001.
35. Grine, F.; **Ungar**, P.; Teaford, M. Error rates in dental microwear quantification using SEM. *SCANNING*, 24, 144-153, 2002.
36. Teaford, M.F.; **Ungar**, P.S.; Grine, F.E. Fossil evidence for the evolution of human diet. In *HUMAN DIET: ITS ORIGINS AND EVOLUTION*. Ungar, P.S. and Teaford, M.F., eds. Westport, CT. and London, Bergen & Garvey, pp. 143-166, 2002.
37. **Ungar**, P.S. Reconstructing the diets of fossil primates. In *RECONSTRUCTING BEHAVIOR IN THE PRIMATE FOSSIL RECORD*. Plavcan, J.M.; Kay, R.F.; Jungers, W.L.; Schaik, C.P. van, eds. New York, Plenum, pp. 261-296, 2002.
38. **Ungar**, P.S.; Teaford, M.F. Perspectives on the evolution of human diet. In *HUMAN DIET: ITS ORIGINS AND EVOLUTION*. Ungar, P.S. and Teaford, M.F., eds. Westport, CT. and London, Bergen & Garvey, pp. 1-6, 2002.

39. Lacruz, R.; **Ungar**, P.; Hancox, P.J.; Brink, J.S.; Berger, L.R. Gladysvale: Fossils, strata and GIS analysis. *SOUTH AFRICAN JOURNAL OF SCIENCE*, 99, 283-286, 2003.
40. M'Kirera, F.; **Ungar**, P.S. Occlusal relief changes with molar wear in *Pan troglodytes troglodytes* and *Gorilla gorilla gorilla*. *AMERICAN JOURNAL OF PRIMATOLOGY*, 60, 31-42, 2003.
41. Nigro, J.; **Ungar**, P.; deRuiter, D.; Berger, L. Developing a Geographic Information System (GIS) for mapping and analyzing fossil deposits at Swartkrans, Gauteng Province, South Africa. *JOURNAL OF ARCHEOLOGICAL SCIENCE*, 30, 317-324, 2003.
42. **Ungar**, P.; Kirera, F. A solution to the worn tooth conundrum in primate functional anatomy. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, USA*, 100, 3874-3877, 2003.
43. **Ungar**, P.S.; Brown, C.A.; Bergstrom, T.S.; Walker, A.C. Quantification of dental microwear by tandem scanning confocal microscopy and scale-sensitive fractal analyses. *SCANNING*, 25, 185-193, 2003.
44. **Ungar**, P.S. Dental evidence for the diets of fossil primates at Rudabánya. Published in *RECENT ADVANCES ON MULTIDISCIPLINARY RESEARCH AT RUDABÁNYA, LATE MIOCENE (MN9), HUNGARY: A COMPENDIUM*. Bernor, R.L, Kordos, L., and Rook, L. eds. Firenze, Bolletino della Societa Paleontologica Italiana, 89:14-15, 2004.
45. **Ungar, P.S.**; Teaford, M.F.; Kay, R.F. Molar microwear and shearing crest development in Miocene catarrhines. *ANTHROPOLOGIE*, 42: 21-35, 2004.
46. **Ungar**, P.S. The evolution of human diet: The known, the Unknown, and the Unknowable. *EVOLUTIONARY ANTHROPOLOGY*, 13: 45-46, 2004.
47. **Ungar**, P.S. Dental topography and diets of *Australopithecus afarensis* and early *Homo*. *JOURNAL OF HUMAN EVOLUTION*, 46: 605-622, 2004.
48. Dennis, J.C.; **Ungar**, P.S.; Teaford, M.F.; Glander, K.E. Dental topography and molar wear in *Alouatta palliata* from Costa Rica. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*, 125: 152-161, 2004.
49. Merceron, G.; **Ungar**, P. Dental microwear and palaeoecology of bovids from the early Pliocene of Langebaanweg, Cape Province, South Africa. *SOUTH AFRICAN JOURNAL OF SCIENCE*, 101: 265-270, 2005.
50. Schubert, B.W.; **Ungar**, P.S. Reflecting on their bite: wear facets and occlusal relationships in tyrannosaurids *ACTA PALAEONTOLOGICA POLANICA*, 50: 93-99, 2005.

51. Scott, R.S.; **Ungar**, P.S.; Bergstrom, T.S.; Brown, C.A.; Grine, F.E.; Teaford, M.F.; Walker, A. Dental microwear texture analysis reflects diets of living primates and fossil hominins. *NATURE*, 436: 693-695, 2005.
52. Teaford, M.F.; Lucas, P.W.; **Ungar**, P.S.; Glander, K.E. Mechanical defenses in leaves eaten by Costa Rican Howling Monkeys (*Alouatta palliata*). *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*, 129:99-104, 2005.
53. **Ungar**, P.S. Reproductive fitness and tooth wear: Milking as much as possible out of dental topographic analysis. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, USA*, 102:16533-16534, 2005.
54. **Ungar**, P.S. Dental evidence for the diets of fossil primates from Rudabánya, northeastern Hungary with comments on extant primate analogs and “noncompetitive” sympatry. *PALAEONTOGRAPHIA ITALICA*, 90:97-111, 2005.
55. **Ungar**, P.S.; Grine, F.E.; Teaford, M.F.; El-Zaatari, S. Dental microwear and diets of African early *Homo*. *JOURNAL OF HUMAN EVOLUTION*, 50:78-95, 2006.
56. Grine, F.E.; **Ungar**, P.S., Teaford, M.F. Was the Early Pliocene hominin ‘*Australopithecus anamensis*’ a hard object feeder? *SOUTH AFRICAN JOURNAL OF SCIENCE*, 102: 301-310, 2006.
57. Grine, F.E.; **Ungar**, P.S.; Teaford, M.F.; El Zaatari, S. Dental microwear of *Praeanthropus afarensis*. *JOURNAL OF HUMAN EVOLUTION*, 51: 297-319, 2006.
58. Schubert, B.W.; **Ungar**, P.S.; Sponheimer, M.; Reed, K.E. Microwear evidence for Plio-Pleistocene bovid diets from Makapansgat Limeworks Cave, South Africa. *PALAEOGEOGRAPHY, PALAEOCLIMATOLOGY, PALAEOECOLOGY*, 241: 301-319, 2006.
59. Scott, R.S.; **Ungar**, P.S.; Bergstrom, T.S.; Brown, C.A.; Childs, B.; Teaford, M.F.; Walker, A. Dental microwear texture analysis. *JOURNAL OF HUMAN EVOLUTION*, 51: 339-349, 2006.
60. **Ungar**, P.S.; Grine, F.E.; Teaford, M.F. Diet in early *Homo*: A review of the evidence and a new model of adaptive versatility. *ANNUAL REVIEW OF ANTHROPOLOGY* 35: 209-228, 2006.
61. Teaford, M.F.; **Ungar**, P.S. Dental adaptations of African apes. To be published in *HANDBOOK OF PALEOANTHROPOLOGY, VOLUME 1: PRINCIPLES, METHODS, AND APPROACHES*. Henke, W., Rothe, H. and Tattersall, I. eds. Heidelberg, Springer-Verlag, pp. 1107-1132, 2007.

62. **Ungar**, P.S. Dental functional morphology: The known, the unknown, and the unknowable. In THE EVOLUTION OF HOMININ DIETS: THE KNOWN, THE UNKNOWN, AND THE UNKNOWABLE. Ungar, P. ed. Oxford and New York, Oxford University Press, pp. 39-55, 2007.
63. **Ungar**, P.S. Limits to Knowledge on the Evolution of Hominin Diet. EVOLUTION OF HOMININ DIETS: THE KNOWN, THE UNKNOWN, AND THE UNKNOWABLE. Ungar, P. ed. Oxford and New York, Oxford University Press, pp. 395-408, 2007.
64. **Ungar**, P.S. Dental topography and human evolution: With comments on the diets of *Australopithecus africanus* and *Paranthropus robustus*. To be published in DENTAL PERSPECTIVES ON HUMAN EVOLUTION: STATE OF THE ART RESEARCH IN DENTAL ANTHROPOLOGY. Bailey, S. and Hublin, J.J. eds. New York, Springer-Verlag, pp. 321-344, 2007.
65. **Ungar**, P.S.; Merceron, G.; Scott, R.S. Dental microwear texture analysis of Varswater bovids and early Pliocene paleoecology of Langebaanweg, Western Cape Province, South Africa. JOURNAL OF MAMMALIAN EVOLUTION 14:163-181, 2007.
66. Krueger, K.L.; Scott, J.R.; Kay, R.F.; **Ungar**, P.S. Technical Note: Dental microwear textures of "Phase I" and "Phase II" facets. To be published in the AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY, 137:485-490, 2008.
67. Teaford, M.F.; Kay, R.F.; **Ungar**, P.S. Molar shape and molar microwear in the Koobi Fora monkeys: Ecomorphological Implications. In KOOBI FORA PROJECT, VOLUME VI, MONKEYS. Jablonski, N. and Leakey, M.G., eds. San Fransisco, California Academy of Sciences, pp. 337-358, 2008.
68. **Ungar**, P.S. Strong teeth, strong seeds. NATURE 452:703-705, 2008.
69. **Ungar**, P.S.; Bunn, J. Primate dental topographic analysis and functional morphology. In TECHNIQUE AND APPLICATION IN DENTAL ANTHROPOLOGY. Irish, J.D. and Nelson, G.C. eds. Cambridge, Cambridge University Press, pp. 253-265, 2008.
70. **Ungar**, P.S.; Grine, F.E.; Teaford, M.F. Dental microwear indicates that *Paranthropus boisei* was not a hard-object feeder. PUBLIC LIBRARY OF SCIENCE (PLoS), ONE, 3 (4), e2044:1-6, 2008.
71. **Ungar**, P.S.; Scott, R.S.; Scott, J.S.; Teaford, M.F. Dental microwear analysis: historical perspectives and new approaches. In TECHNIQUE AND APPLICATION IN DENTAL ANTHROPOLOGY. Irish, J.D. and Nelson, G.C. eds. Cambridge, Cambridge University Press, pp. 389-425, 2008.
72. Bunn, J.M.; **Ungar**, P.S. Dental topography and diets of four Old World monkey species. AMERICAN JOURNAL OF PRIMATOLOGY, in press.

73. Grine, F.E.; **Ungar**, P.S.; Teaford, M.F.; El Zaatari, S. Molar microwear evidence for diet in a purported hominin species lineage from the Pliocene of East Africa. To be published in AFRICAN GENESIS: PAPERS IN HONOUR OF PHILLIP V. TOBIAS. Reynolds, S. and Gallagher, A., eds. Johannesburg, University of the Witwatersrand Press.
74. Scott, J.S.; Godfrey, L.R.; Jungers, W.L.; Scott, R.S.; Simons, E.L.; Teaford, M.F.; **Ungar**, P.S.; Walker, A. Dental microwear texture analysis of Megaladapids and Archaeolemurids. To be published in the JOURNAL OF HUMAN EVOLUTION, in press.
75. Teaford, M.F.; **Ungar**, P.S.; Grine, F.E. Dental microwear and paleoecology. To be published in EARLY HOMININ PALEOECOLOGY. Sponheimer, M., Ungar, P., Reed, K., and Lee-Thorp, J. eds. Boulder, University of Colorado Press, in press.
76. **Ungar**, P.S.; Daegling, D. The functional morphology of jaws and teeth, and their implications for understanding early hominin dietary adaptations. To be published in EARLY HOMININ PALEOECOLOGY. Sponheimer, M., Ungar, P., Reed, K., and Lee-Thorp, J. eds. Boulder, University of Colorado Press, in press.
77. **Ungar**, P.S.; Scott, R.S. Dental evidence for diets of Early *Homo*. To be published in THE FIRST HUMANS: ORIGINS OF THE GENUS *HOMO*. Grine, F.E.; Leakey, R.E. and Fleagle, J.G., Eds. Springer-Verlag, New York, in press.
78. **Ungar**, P.S.; Tobias, P.V. "Time, the refreshing river": An academic genealogy extending nearly half a millennium. To be published in AFRICAN GENESIS: PAPERS IN HONOUR OF PHILLIP V. TOBIAS. Reynolds, S. and Gallagher, A., eds. Johannesburg, University of the Witwatersrand Press.

Manuscripts in review:

1. Krueger, K.L.; **Ungar**, P.S. Incisor microwear textures of five bioarcheological groups. To be submitted to the INTERNATIONAL JOURNAL OF OSTEOARCHEOLOGY.
2. **Ungar**, P.S. Tooth form and function: Insights into adaptation through the analysis of dental microwear. Under consideration for publication in INTERDISCIPLINARY DENTAL MORPHOLOGY. Koppe, T., Meyer, G. and Alt, K.W., Eds. Springer-Verlag, Berlin.

Manuscripts in preparation:

1. Merceron, G.M.; Scott, J.S.; Scott, R.D.; Geraads, D.; Spassov, N.; **Ungar**, P.S. Seed predation for early colobine as a link between frugivory and folivory? Evidence from dental microwear texture analysis of *Mesopithecus* (Late Miocene of Eurasia). To be submitted to the JOURNAL OF HUMAN EVOLUTION.
2. Schubert, B.W.; **Ungar**, P.S. Dental microwear texture analysis of three carnivorans. To be submitted to the JOURNAL OF ANATOMY.

3. Scott, R.S.; Teaford, M.F.; **Ungar**, P.S. Dental microwear texture analysis in primates: A comparative baseline series. To be submitted to the ANATOMICAL RECORD.
4. Scott, R.S.; **Ungar**, P.S.; Teaford, M.F. Fallback food exploitation and dental microwear texture analysis. To be submitted to AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY.
5. **Ungar**, P.S. Dental evidence for early hominin diets. To be submitted to the SAS BULLETIN.
6. **Ungar**, P.S.; Carter, C.M. A dental topographic analysis of Mississippian and Caddoan Amerind molar teeth. To be submitted to the AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY.
7. **Ungar**, P.S.; Lucas, P.W. Tooth form and function in biological anthropology. To be submitted for publication in A COMPANION TO BIOLOGICAL ANTHROPOLOGY. Larsen, C., Ed. Wiley-Blackwell, New York.
8. Ungar, P.S.; Scott, R.S. Dental microwear texture analysis and diet in *Australopithecus afarensis*: Evidence for dietary homogeneity through space and time. To be submitted to the PROCEEDINGS OF THE ROYAL SOCIETY OF LONDON.

Published Reviews:

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, 1997.
2. **Ungar**, P.S.; Schneider, M.J. Review of CHIMPANZEE POLITICS: POWER AND SEX AMONG APES. De Waal, F. QUARTERLY REVIEW OF BIOLOGY, 74:250, 1999.
3. **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, 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, 2003.
6. **Ungar**, P.S. Review of DENTAL FUNCTIONAL MORPHOLOGY: HOW TEETH WORK. Lucas, P.W. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. 128:701-702, 2005.

7. **Ungar, P.S.** Review of TEETH (2nd Edition). Hillson, S. QUARTERLY REVIEW OF BIOLOGY. 81:190, 2006.

Invited Talks and Lectures:

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. *Evolution's Bite*. Center for the Advancement of Science Writing 42nd Annual New Horizons in Science briefing. Fayetteville, AR, 2004.
15. **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.
16. **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.
17. **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.
18. **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.
19. **Ungar**, P.S. *Dental evidence for diets of early hominins*. Southern Illinois University, Carbondale, Illinois, 2006.
20. **Ungar**, P.S. Invited discussant to The 2006 Stony Brook Human Evolution Symposium and Workshop convened by Richard Leakey, Stony Brook NY, 2006.
21. **Ungar**, P.S. *Dental microwear texture analysis and the diets of Plio-Pleistocene hominins from Africa*. University of Cape Town, South Africa, 2006.
22. **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.
23. **Ungar**, P.S. *Dental evidence for diet in early Hominins*. University of Colorado Department of Anthropology Graduate Students Distinguished Lecture Series, Boulder, CO, 2007.
24. **Ungar**, P.S. *Dental evidence for diets of Plio-Pleistocene hominins from Africa*. Pennsylvania State University. Department of Anthropology Colloquium Series, 2008.

25. **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.

Published Abstracts and Conference Presentations:

1. **Ungar, P.S.**, Early hominid incisor bevelling patterns. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* 75:282, 1988.
2. **Ungar, P.S.**, Incisor use and wear in *Cebus olivaceus* and *Alouatta seniculus*: a preliminary report. Presented at the annual meeting of the Northeastern Anthropological Association. Montreal, Canada, 1989.
3. **Ungar, P.S.**; Grine, F.G. Maxillary central incisor wear in *Paranthropus* and *Australopithecus*: a preliminary quantitative analysis. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* 78:417, 1989.
4. **Ungar, P.S.** Preliminary analysis of incisor microwear and feeding behavior in two platyrrhine species. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY* 81:310, 1990.
5. **Ungar, P.S.** Feeding behavior and dental microwear in Sumatran anthropoids. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*. Supplement #14, 1992.
6. **Ungar, P.S.** Incisor microwear and tooth use in Sumatran anthropoids. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*. Supplement #16, 1993.
7. Teaford, M.F.; Pastor, R.F.; Glander, K.E.; **Ungar, P.S.** Dental microwear and diet: Costa Rican *Alouatta* revisited. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*. Supplement #18, 1994.
8. **Ungar, P.S.**; Teaford, M.F. Non-occlusal surface molar microwear in primates. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*. Supplement #18, 1994.
9. Walker, A.; Teaford, M.F.; **Ungar, P.S.** Enamel microwear differences between species of *Proconsul* from the Early Miocene of Kenya. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*. Supplement #18, 1994.
10. Fennell, K.J.; **Ungar, P.S.**; Gordon, K.; Trinkaus, E. Neandertal Incisor Bevelling. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*. Supplement #20, 1995.
11. **Ungar, P.S.**; Kay, R.F. Molar shear and dietary adaptations of European Miocene catarrhines. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY*. Supplement #20, 1995.

12. Teaford, M.F.; **Ungar**, P.S.; Kay, R.F.; Leakey, M.D. The evolution of diet in Old World monkeys. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #22, 1996.
13. **Ungar**, P.S.; Kay, R.F.; Teaford, M.F.; Walker, A. Dental evidence for diets of Miocene apes. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #22, 1996.
14. Spencer, M.A.; **Ungar**, P.S. Anterior tooth use and craniodental morphology in humans. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #24, 1997.
15. Lucas, P.W.; Teaford, M.F.; **Ungar**, P.S. Physical Properties of Foods in *Alouatta palliata*. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #26, 1998.
16. **Ungar**, P.S.; Spencer, M.A. Incisor microwear and anterior tooth use in three Native American populations. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #26, 1998.
17. **Ungar**, P.S.; Teaford, M.F. A paleontological perspective on the evolution of human diet. Presented at the 14th International Congress of Anthropological and Ethnological Sciences, 1998. Williamsburg, Virginia.
18. Zuccotti, L.F.; Williamson, M.D.; Limp, W.F.; **Ungar**, P.S. Modeling primate occlusal morphology in three dimensions using Geographic Resources Analysis Support System software. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #26, 1998.
19. Bax, J.S.; **Ungar**, P.S. Incisor labial wear striations and inferences of behavior in Middle and Late Pleistocene hominids. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #28, 1999.
20. **Ungar**, P.S.; Teaford, M.F.; Grine, F.E. A preliminary study of molar occlusal relief in *Australopithecus africanus* and *Paranthropus robustus*. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #28, 1999.
21. Williamson, M.D.; **Ungar**, P.S. Modeling gross occlusal wear in *Gorilla gorilla* using dental topographic analyses. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #28, 1999.
22. **Ungar**, P.S.; Grine, F.E.; Perez Perez, A.; Teaford, M.F.; Magori, C.C. Interproximal grooving of fossil hominin teeth: additional evidence from Olduvai Gorge. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #30, 2000
23. Williamson, M.D.; **Ungar**, P.S. Gross wear and molar microwear in *Alouatta palliata*: a preliminary study using dental topographic analysis. Supplement #30, 2000.

24. **Ungar**, P.S.; Teaford, M.F.; Grine, F.E. A preliminary study of molar microwear of early *Homo* from East and South Africa. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #32, 2001.
25. Nigro, J.D.; De Reuter, D.J.; Berger, L.R.; **Ungar**, P.S. A three-dimensional Geographic Information System for Swartkrans. JOURNAL OF HUMAN EVOLUTION. Volume 40, 2001.
26. Grine, F.E.; **Ungar**, P.S.; Teaford, M.F. Quantification of dental microwear using SEM: Inter-observer error and comparison of different techniques. SCANNING. 23:74-75, 2001.
27. **Ungar**, P.; Dennis, J.; Kirera, F.; Wilson, J.; Grine, F. Quantification of tooth crown shape by dental topographic analysis. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #34, 2002
28. Teaford, M.; **Ungar**, P.; Grine, F. Molar Microwear and Diet of *Praeanthropus afarensis*: preliminary results from the Denan Dora Member. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #34, 2002
29. Dennis, J.C.; **Ungar**, P.S.; Teaford, M.F.; Glander, K.E. Dental topographic analysis of molar wear in *Alouatta palliata*. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #36, 2003
30. M'Kirera, F; **Ungar**, P.S Occlusal shape changes with wear: A comparison of chimpanzees and gorilla molars. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #36, 2003
31. Schubert, B.W; **Ungar**, P.S.; Sponheimer, M.; Reed, K.E. Preliminary dental microwear analysis and dietary reconstruction of Makapansgat Bovids. JOURNAL OF HUMAN EVOLUTION. Volume 44, 2003.
32. **Ungar**, P.S. Tooth size and shape. Presented at the Sloan Diet Workshop: The Evolution of Human Diet: The Known, the Unknown and The Unknowable. Fayetteville, AR, USA, August, 2003.
33. **Ungar**, P.S.; M'Kirera, F. A 3D approach to the functional morphology worn primate teeth. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #36, 2003
34. Grine, F.E.; **Ungar**, P.S.; Teaford, M.F.; El-Zaatari, S. Pliocene Paleoecological Reconstructions and Molar Microwear in *Praeanthropus afarensis*. Presented at the NSF Early Hominin Paleoecology Workshop. Boulder, CO, USA, October, 2004.

35. Schubert, B.; **Ungar, P.S.**; Lee-Thorp, J.; Reed, K.E., Sponheimer, M. Bovid diets and paleoenvironments at Makapansgat: A study based on dental wear. Presented at the NSF Early Hominin Paleoecology Workshop. Boulder, CO, USA, October, 2004.
36. **Ungar, P.S.** Dental topography and diets of *Australopithecus afarensis* and early *Homo*. Presented at the NSF Early Hominin Paleoecology Workshop. Boulder, CO, USA, October, 2004.
37. **Ungar, P.S.** Molar topography and dental functional morphology of *Australopithecus afarensis* and early *Homo*. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #38, 2004.
38. Scott, R.S.; Bergstrom, T.S.; Brown, C.A.; Teaford, M.F.; Walker, A.; **Ungar, P.S.** A measurement based technique for dental microwear analysis: applying confocal microscopy and scale-sensitive fractal analysis. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #40, 2005.
39. **Ungar, P.S.**; Taylor, S. Dental topographic analysis: Tooth wear and function. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #40, 2005.
40. **Ungar, P.S.** *The role of fallback resources in human evolution*. Presented at the first annual meeting of ARKUMO Regional Paleoanthropology Society, Columbia, Missouri, 2005.
41. **Ungar, P.S.**; Scott, R.S.; Brown, C.A.; Childs, B.A.; Bergstrom, T.S.; Teaford, M.F.; Walker, A. Dental microwear texture analysis of primate molar wear facets. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #42, 2006.
42. **Ungar, P.S.** Paleoecology of the Mio-Pliocene site at Langebaanweg, Western Cape Province, South Africa: Evidence from bovid dental microwear. Presented at the second annual meeting of ARKUMO Regional Paleoanthropology Society, Lawrence, Kansas, 2006.
43. **Ungar, P.S.**; Merceron, G.; Scott, R.S. Dental microwear of bovids from Langebaanweg: evidence for diet and palaeoecology. AFRICAN NATURAL HISTORY. 7: 199-200, 2006.
44. Scott, J.R.; **Ungar, P.S.**; Godfrey, L.R.; Jungers, W.L.; Scott, R.S.; Teaford, M.F.; Walker, A.; Simons, E.L. Dental microwear texture analysis of megaladapids and archeolemurids. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #44, 2007.
45. Brown, C.A.; Bergstrom, T.S.; Childs, B.E., Powers, B.M; Yadav, A.; Scott, R.S.; **Ungar, P.S.** Characterizing anisotropy using length-scale fractal analysis. 11th International Conference on Metrology and Properties of Engineering Surfaces, Huddersfield, UK, 2007.

46. **Ungar**, P.S.; Scott, R.S. Microwear texture analysis as applied to fossil primates and human ancestors. 8th International Congress on Vertebrate Morphology, Paris, France, 2007.
47. **Ungar**, P.S. The “Nut-cracker”: *Paranthropus boisei* more likely ate Jello! ARKUMO Regional Paleoanthropology Society Meeting, Fayetteville, AR, 2007.
48. Krueger, K.L.; Scott, J.R.; **Ungar**, P.S.; Kay, R.F. Comparisons of dental microwear texture attributes between facets in three primate taxa. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #46, 2008.
49. **Ungar**, P.S.; Scott, R.S. Investigating the importance of fallback foods in early hominins using dental microwear. AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY. Supplement #46, 2008.
50. Teaford, M.F.; Grine, F.E.; Kay, R.F.; Schubert, B.S.; Ungar, P.S. Low magnification dental microwear: The problem of postmortem artefacts. JOURNAL OF VERTEBRATE PALEONTOLOGY Volume 28, Supplement A:151.

Software Developed:

1. MICROWEAR Image Analysis Software Package. Current Version: 4.02.

Inventions/Patents:

1. **Inventor**. Texture analysis of skin neoplasms in cancer detection (with Robert S. Scott). Provisional patent application filed 5/24/06 by the University of Arkansas.

Research Awards:

- | | |
|------|--|
| 2008 | Johns Hopkins University Society of Scholars. Induction. |
| 2002 | J.W. Fulbright College of Arts and Sciences Master Researcher Award. University of Arkansas. |
| 2000 | Distinguished Faculty Award for Research and Service. University of Arkansas Alumni Association. |
| 1994 | Mildred Trotter Prize. American Association of Physical Anthropologists. |
| 1986 | University of Wisconsin University-Wide Graduate Fellowship. |

1985

Matthew J. Goldstein Award in Anthropology, SUNY Binghamton.

TEACHING:

Courses taught/curriculum development:

- 1995- Course Instructor (Fulbright College, University of Arkansas)
- ANTH 1013 *An Introduction to Biological Anthropology*
 - ANTH 3433 *Human Evolution*
 - ANTH 3923H *Honors Colloquium in Bioanthropology.*
 - ANTH/BIOL 4613 *Primate Adaptations and Evolution.*
 - ANTH 5152/ENDY 6023 *African Paleoecology.*
 - ANTH/BIOL 5423 *Human Evolutionary Anatomy.*
 - ANTH/HUMN 3903/4483 *Social, Political and Natural History of South Africa* (Summer Study Tour).

Course Levels: 1000 = Freshman, 3000 = Junior, 4000 = Senior/MA Grad, 5-6000 = MA/PhD Grad

- 1993-1995 Laboratory and Course Instructor (Duke University Medical School).
- BAA 180 *Current Topics in Biological Anthropology.*
 - Medical School: *Gross Human Anatomy.*
- 1992-1993 Laboratory Instructor (Johns Hopkins University School of Medicine).
- Medical School: *Clinically Oriented Human Anatomy*
- 1986-1992 Teaching Assistant (State University of New York at Stony Brook).
- *Anthropology of Magic and Witchcraft.*
 - *An Introduction to Physical Anthropology.*
 - *Regional Human Anatomy (Allied Health Sciences).*
 - *An Introduction to Archaeology.*
 - *Political Anthropology.*
 - *Paleolithic Archaeology.*
- 1984 Teaching Assistant (State University of New York at Binghamton).
- *An Introduction to Anthropology.*

Postdoctoral advisees:

- 2003-2007 Robert Scott, Ph.D. (2004) University of Texas, Austin Postdoctoral Project: - 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.

Thesis Committees:

Committee Chair/Thesis Director (in progress and completed):

- In progress 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.
- In progress Kristin Krueger. Incisor microwear and paramasticatory behavior of Neandertals. Ph.D. Dissertation. 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.

Masters and PhD Thesis advisory committee member (completed only):

- 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.

Teaching Awards:

- 2003 University of Arkansas Outstanding Mentor
- 2002 University of Arkansas Outstanding Mentor
- 2001 University of Arkansas Teaching Academy Award of Excellence.
- 1998-2000 University of Arkansas Outstanding Mentor

SERVICE:

University of Arkansas campus service:

2008

- Chairman, Department of Anthropology (July – Dec)
- University Social Sciences Core Assessment Committee, University of Arkansas
- University Core Curriculum Science Core Assessment Committee, University of Arkansas
- Environmental Dynamics Doctoral Program Steering Committee
- Anthropology Department Personnel Committee, University of Arkansas (Jan – June)
- Faculty advisor to the Indonesian Students Association and Tsunami Fulbright Initiative.

2007

- Anthropology Department Personnel Committee, University of Arkansas.
- Faculty advisor to the Indonesian Students Association and Tsunami Fulbright Initiative.

2006

- Interdisciplinary Internal Review Board (IRB) for Fulbright College, University of Arkansas.
- Anthropology Department Personnel Committee, University of Arkansas.

2005

- Undergraduate Research Grants Evaluation Committee for the Honor's College, University of Arkansas.
- Annual Baum Teaching Workshop Organizing Committee.
- Anthropology Department Personnel Committee, University of Arkansas.

2004

- Fulbright Hays South Africa Trip Predeparture Workshop Lecture
- Annual Baum and Arkansas Alumni Association Faculty Awards Evaluation Committee.
- Anthropology Department Personnel Committee, University of Arkansas.
- University Day Presentations (University of Arkansas)

2003

- Anthropology Department Personnel Committee, University of Arkansas.
- Fulbright Hays South Africa Trip Predeparture Workshop Lecture
- Director of Graduate Studies, Department of Anthropology, University of Arkansas.

2002

- University Day Presentations (University of Arkansas)
- Director of Graduate Studies, Department of Anthropology, University of Arkansas.
- Asian Studies Committee member. Fulbright College, University of Arkansas.
- Faculty advisor to the Anthropology Student Society, University of Arkansas.
- Annual Baum and Arkansas Alumni Association Faculty Awards Evaluation Committee.
- Baum Teaching Grant Review Panel.
- Anthropology Department Personnel Committee, University of Arkansas.
- Cooperative Agreement written and signed between the University of Arkansas and The University of the Witwatersrand, Johannesburg, South Africa.

2001

- University Day Presentations (University of Arkansas)
- Director of Graduate Studies, Department of Anthropology, University of Arkansas.
- Asian Studies Committee member. Fulbright College, University of Arkansas.
- Faculty advisor to the Anthropology Student Society, University of Arkansas.
- Anthropology Department Personnel Committee, University of Arkansas.

2000

- Director of Graduate Studies, Department of Anthropology, University of Arkansas.
- Asian Studies Committee member. Fulbright College, University of Arkansas.
- Faculty advisor to the Anthropology Student Society, University of Arkansas.
- Physical Anthropology Search Committee Member, Department of Anthropology, University of Arkansas.
- Gallery lecture at the University of Arkansas Museum on evolution .

1999

- American Association of Physical Anthropologists. Annual Student Prize Committee Member.
- Director of Graduate Studies, Department of Anthropology, University of Arkansas.
- Sturgis Honor's Study Abroad Committee
- Asian Studies Committee member. Fulbright College, University of Arkansas.
- Sigma Xi Research Society Department Liaison
- Faculty advisor to the Anthropology Student Society, University of Arkansas.

1998

- Director of Graduate Studies, Department of Anthropology, University of Arkansas.
- Sturgis Honor's Study Abroad Committee
- Sigma Xi Research Society Department Liaison
- Faculty advisor to the Anthropology Student Society, University of Arkansas.
- Asian Studies Committee member. Fulbright College, University of Arkansas.

1997

- Sigma Xi Research Society - Head of Membership Committee and Department Liaison
- Faculty advisor to the Anthropology Student Society, University of Arkansas.
- Asian Studies Committee member. Fulbright College, University of Arkansas.

1996

- Sigma Xi Research Society - Head of Membership Committee and Department Liaison
- Faculty advisor to the Anthropology Student Society, University of Arkansas.
- Asian Studies Committee member. Fulbright College, University of Arkansas.
- Anthropology Department Curriculum Committee. University of Arkansas.

Community Service: Fayetteville, AR

2005

- Lecture on Evolution of the Human Diet to the Northwest Arkansas Dietetic Association
- Lecture on skeletal anatomy to Holcomb Elementary School
- Lecture on South Africa to Holcomb Elementary School

2004

- Lecture on paleontology to Holcomb Elementary School
- 2003
- Discussion of Evolution and Intelligent Design in local High Schools on Local ABC Television Affiliate 40/29
 - Lecture on paleontology to Holcomb Elementary School and to the Montessori Children's House in Fayetteville
 - Lecture and discussion "The Evolution of the Cosmos, Life and Humans" at the University of Arkansas Lutheran Student Fellowship.
 - Director of Graduate Studies, Department of Anthropology, University of Arkansas.
- 2002
- United Nations 2002 World Summit for Sustainable Development, Johannesburg, South Africa. I helped organize a joint booth presentation on using technology training to improve tourism infrastructure, local economy and research in Paleoanthropology in South Africa.
 - Lecture on paleontology to Holcomb Elementary School and to the Montessori Children's House in Fayetteville
- 2000
- Regional Science Fair Judge (Zoology, Senior High school category)
 - Public lecture on human evolution at the Unitarian Universalist Fellowship, Fayetteville, AR.
 - Public lecture on primate conservation at St. Martin's Episcopal University Center, Fayetteville, AR.
 - Lecture on osteology to the Montessori Children's House of Fayetteville.
- 1999
- Regional Science Fair Judge (Zoology, Senior High school category)
- 1998
- Regional Science Fair Judge (Zoology, Senior High school category)
 - Lectures given to Ramay Junior High school students
- 1997
- Regional Science Fair Judge (Zoology, Middle school category)
- 1996
- Lecture on Evolution at the Unitarian Universalist Fellowship, Fayetteville, AR

Professional Service (Off-campus):

Committee Work and Advisory Boards:

2008 - NATURE Journal Readers Advisory Panel.

2008 NSF Senior Grants Advisory Panel, Biological Anthropology Program.

1998 Annual Student Prize Committee. American Association of Physical Anthropologists.

1997 - Advisory Board Member. NOW database on Eurasian Neogene mammals (palaeoecology).

Editorships:

- 2008- Associate Editor. *THE OPEN PALEONTOLOGY JOURNAL*
- 2007-2010 Associate Editor. *JOURNAL OF HUMAN EVOLUTION*
- 2000-2007 Editor-in-Chief. *PHYSICAL ANTHROPOLOGY: Official Newsletter of the American Association of Physical Anthropologists.*
- 2002-2004 Associate Editor. *AMERICAN JOURNAL OF PRIMATOLOGY*
- 1997-2002 Associate Editor. *AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY.*

Grant Proposals Reviewed:

- *THE L.S.B. LEAKEY FOUNDATION*
- *THE NATIONAL SCIENCE FOUNDATION*

Journal Manuscripts Reviewed:

- AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY
- AMERICAN JOURNAL OF PRIMATOLOGY
- CURRENT ANTHROPOLOGY
- EARTH SCIENCE REVIEW
- EVOLUTIONARY ANTHROPOLOGY
- FOLIA PRIMATOLOGICA
- INTERNATIONAL JOURNAL OF PRIMATOLOGY
- JOURNAL OF HUMAN EVOLUTION
- JOURNAL OF MAMMALOGY
- JOURNAL OF MORPHOLOGY
- JOURNAL OF PALAEONTOLOGY
- NATURE
- PALEOBIOLOGY
- PALEONTOLOGICA ELECTRONICA
- PRIMATES
- PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES (USA)
- SCIENCE
- YEARBOOK OF PHYSICAL ANTHROPOLOGY

Book Prospectus Proposal Reviews:

- CAMBRIDGE UNIVERSITY PRESS
- OXFORD UNIVERSITY PRESS
- ALLYN AND BACON PRESS

Symposia Organized:

- 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. See <http://www.sloandietworkshop.org> for details.
- 1998 (with Mark Teaford). The Evolution of Human Diet. Held at the 14th International Congress on Anthropological and Ethnographic Sciences. Williamsburg, Virginia.
- 1994 (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.

Academic Web Pages Designed, Authored or Maintained:

1. Dental Microwear Home Page (<http://www.uark.edu/microwear>)
2. University of Arkansas Department of Anthropology World Web Site (<http://www.uark.edu/depts/anthinfo/>) 1996-1999.

Service Awards:

- 2000 Distinguished Faculty Award for Research and Service. University of Arkansas Alumni Association.