

Curriculum Vitae

WILLIAM JOSEPH SANDERS

PERSONAL INFORMATION

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EDUCATION

- Ph.D. Paleanthropology, Department of Anthropology, New York University, 1995.
Dissertation: *Function, Allometry, and Evolution of the Australopithecine Lower Precaudal Spine*
- M.Phil. Paleanthropology, Department of Anthropology, New York University, 1990
- A.B. Anthropology, The College, The University of Chicago, 1979
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CURRENT POSITIONS

Adjunct Assistant Research Scientist, Department of Anthropology, University of Michigan, 2007-Present
Assistant Research Scientist, Museum of Paleontology, University of Michigan, 1997-Present
Senior Research Laboratory Specialist (Chief Vertebrate Preparator), Museum of Paleontology, University of Michigan, 1988-Present

OTHER ACADEMIC POSITIONS

Lecturer I, Department of Earth and Environmental Sciences, University of Michigan, 2009
Honorary Research Associate, Palaeoanthropology Unit for Research and Exploration, University of the Witwatersrand, Johannesburg, South Africa, 2001-2004
Research Associate, Museum of Paleontology, University of Michigan, 1991-1997
Research Assistant, Museum of Paleontology, University of Michigan, 1988-1991
Contract Vertebrate Preparator, Department of Vertebrate Paleontology, American Museum of Natural History, New York, 1984-1987
Research Assistant, Department of Anthropology, New York University, 1981-1983

TEACHING EXPERIENCE

University of Michigan

Instructor, *Basic Techniques in Vertebrate Fossil Preparation*, EARTH 299, Museum of Paleontology, 2013

Instructor, *Advanced Vertebrate Fossil Preparation and Conservation*, GeoSci 499, Museum of Paleontology, 2012

Instructor, *Vertebrate Fossil Preparation and Conservation*, GeoSci 498, Museum of Paleontology, 2011

Lecturer, *Fossils, Primates, and Human Evolution*, GeoSci 106, Department of Earth and Environmental Sciences, 2009

Hunter College, City University of New York

Adjunct Lecturer, *Human Evolution*, Anthropology 101, 1985-1987

Adjunct Lecturer, *Human Variation*, Anthropology 102, 1985-1987

New York University

Instructor, *Human Evolution and Prehistory*, A14.0002, 1985-1987

Teaching Assistant, *Human Evolution and Prehistory*, A14.0002, 1982, 1984

Queens College, City University of New York

Adjunct Lecturer, *Introduction to Human Evolution*, Anthropology 102, 1986-1987

College of Staten Island, City University of New York

Adjunct Lecturer, *Introduction to Human Evolution*, Anthropology 390, 1986

Greenwich Village Neighborhood School, New York City
Assistant Classroom Teacher, Grade 2, 1980-1981
Science Teacher, Grades 2-7, 1981-1985

GUEST LECTURES

University of Michigan

Hominoid Evolution, Anthropology 479, Fall 2012
Human Evolutionary Anatomy, AnthroBio 265, Winter 2012
Fossils, Primates, and Human Evolution, GeoSci 106, Fall 2009
Introduction to Biological Anthropology, Anthropology 161, Winter 2000-2010; 2012-2013
Evolution of Mammals, Geology 481, Winter 1995, 2004, 2007
Fossil Record and Evolution of Primates, Geology 438, Winter 1996, 2000, 2003
Fossils, Primates, and Human Evolution, Geology 106, Summer 1995, Winter 1999, Fall, 2001
Evolution and Extinction, Geology 125, Fall 2000
Earth History, Geology 135, Winter 1999

AWARDS

PROSE Award from the American Publishers Awards for Professional and Scholarly Excellence, Single Volume Reference in Science, *Cenozoic Mammals of Africa* (co-edited with Lars Werdelin), University of California Press, 2010
First Finalist, Kay Beattie Distinguished Service Award, College of Literature, Science and the Arts, University of Michigan, 2007
Spotlight Recognition for Outstanding Staff Contributions to the College and University, College of Literature, Science, and the Arts, University of Michigan, 2003
University of Michigan College of Literature, Science, and the Arts Staff Award for Excellence (for Outstanding Contributions to the College and University), 1999
Dean's Outstanding Dissertation Award (Science), Graduate School of Arts and Science, New York University, 1995
Helbein Scholarship, New York University, for Contributions to Community, University, and Profession, 1987

GRANTS

Senior Personnel, N.S.F. Grant, *High Risk Research in Biological Anthropology and Archeology: Development of New Early Miocene Sites in Northern Uganda*, MacLatchy, L., and Kingston, J., co-PIs, 2013-2014
Senior Personnel, N.S.F. Grant, *Collaborative Research: Integrative Paleoanthropology Grant: Research on East African Catarrhine and Hominoid Evolution*, McNulty, K., MacLatchy, L., Peppe, D., Rossie, J., and Deino, A., co-PIs, 2012-2017
Publication Subvention, *Cenozoic Mammals of Africa* (University of California Press), College of Literature, Science, and the Arts, University of Michigan, 2010
Undergraduate Research Opportunity Program Support, *Molding and Casting of Basilosaurus Isis*, College of Literature, Science, and the Arts, University of Michigan, with Gunnell, G., and Gingerich, P.D., co-PIs, 2010, 2008
Senior Personnel, N.S.F. Grant, *Eocene-Oligocene Primate Evolution and Climate Change in the Fayum Depression, Northern Egypt*, Seiffert, E., PI, 2009
MHC Ergonomic Grant, University of Michigan, *Improvement to Preparation Laboratory Work Stations*, 2008
National Geographic Society Grant, *Paleontological and Geological Fieldwork at the Fossil Site of Khasam el-Raqaba, Eastern Desert, Egypt*, with Miller, E., Gunnell, G., and Gingerich, P.D., co-PIs, 2008
Principal Investigator, Preparators Grant, Society of Vertebrate Paleontology, University of Michigan DRDA number 08-2805, *Preparation and Conservation Training of M. Sameh, Wadi Hitan World Heritage Site, Egypt*, 2008

Scott Turner Award in Earth Science, *Taxonomic Analysis of New Fossil Moeritheres and Barytheres (Mammalia, Proboscidea) from the Fayum Depression, Egypt*, Department of Geological Sciences, University of Michigan, 2005

Scott Turner Award in Earth Science, *Participation in the Symposium "Recent Advances in Elephants and Other Proboscideans," 8th Theriological Congress, Sun City, South Africa*, Department of Geological Sciences, University of Michigan, 2001

Senior Personnel, N.S.F. Grant, *Geological and Paleontological Investigation of Chilga, Ethiopia*, Kappelman, J., PI, 1999-2004

Senior Personnel, N.S.F. Grant, *Geology and Paleontology of Laetoli, Tanzania*, Harrison, T., PI, 1998

Scott Turner Award in Earth Science, *Comparative Systematic Analysis of Mio-Pliocene Proboscideans from East Africa*, Department of Geological Sciences, University of Michigan, 1997

Senior Personnel, N.S.F. Small Grant for Exploratory Research, *Geology and Paleontology of Manonga Valley, Tanzania*, Harrison, T., PI, 1991

Dean's Dissertation Fellowship, Support of Dissertation Research, 1989

L.S.B. Leakey Foundation Predoctoral Grant, Support of Dissertation Research, 1989

Wenner-Gren Foundation Predoctoral Grant, Support of Dissertation Research, 1989

Short-Term Visitor's Grant, *Study of Occlusal Variation in Elephants*, Smithsonian Institution (NMNH), 1985

BOOKS

In Preparation

Sanders, W.J. *Evolution and Fossil Record of African Proboscideans*. CRC Press (Taylor & Francis Books).

2010

Werdelin, L., and Sanders, W.J. (eds.) *Cenozoic Mammals of Africa*. Berkeley, University of California Press. 986 pp.

PUBLISHED PAPERS

In Press

Sembrebon, G.M., Rivals, F., Fahlke, J.M., Sanders, W.J., Lister, A.M., and Göhlich, U. Dietary reconstruction of pygmy mammoths from Santa Rosa Island of California. *Quaternary International*.

2016

Gunnell, G.F., Winkler, A.J., Miller, E.R., Head, J.J., El-Barkooky, A.N., Gawad, M.A., Sanders, W.J., and Gingerich, P.D. Small vertebrates from Khashm El-Raqaba, late middle Miocene, Eastern Desert, Egypt. *Historical Biology* **28**:159-171.

2015

MacLatchy, L.M., Sanders, W.J., and Wuthrich, C.L. Hominoid origins. *Nature Education Knowledge* **6** (7):4.

2014

Sanders, W.J., Nemec, W., Aldinucci, M., Janbu, N.E., and Ghinassi, M. Latest evidence of *Palaeoamasia* (Mammalia, Embrithopoda) in Turkish Anatolia. *Journal of Vertebrate Paleontology* **34**:1155-1164.

2012

Sanders, W.J., and Haile-Selassie, Y. A new assemblage of mid-Pliocene proboscideans from the Woranso-Mille Area, Afar Region, Ethiopia: Taxonomic, evolutionary, and paleoecological considerations. *Journal of Mammalian Evolution* **19**:105-128.

Ryan, T.M., Silcox, M.T., Walker, A., Mao, X., Begun, D.R., Benefit, B.R., Gingerich, P.D., Köhler, M., Kordos, L., McCrossin, M.L., Moyà-Solà, S., Sanders, W.J., Seiffert, E.R., Simons, E., Zalmout, I.S., and Spoor, F. Evolution of locomotion in Anthrozoidea: The semicircular canal evidence. *Proceedings of the Royal Society B* **279**:33467-3475.

2011

Abd-Elshafy, E., Gingerich, P.D., Metwally, M.H.M., Antar, M.S.M., Zalmout, I.S., and Sanders, W.J. Procedures and techniques used in preparing *Basilsosaurus isis* WH-074 and similar vertebrates. *Egyptian Journal of Paleontology* **11**:145-161.

Sanders, W.J. Proboscidea; pp. 233-262 in Harrison, T. (ed.), *Paleontology and Geology of Laetoli: Human Evolution in Context. Volume 2: Fossil Hominins and the Associated Fauna*. Dordrecht, Springer.

2010

Zalmout, I.S., Sanders, W.J., MacLatchy, L.M., Gunnell, G.F., Al-Mufarreah, Y.A., Ali, M.A., Nasser, A.-A.H., Al-Masari, A.M., Al-Sobhi, S.A., Nadhra, A.O., Matari, A.H., Wilson, J.A., and Gingerich, P.D. New Oligocene primate from Saudi Arabia and the divergence of apes and Old World monkeys. *Nature* **466**:360-365 (cover article in journal).

Sanders, W.J., Gheerbrant, E., Harris, J.M., Saegusa, H., and Delmer, C. Proboscidea; pp. 161-251 in Werdelin, L., and Sanders, W.J. (eds.), *Cenozoic Mammals of Africa*. Berkeley, University of California Press.

Sanders, W.J., Rasmussen, D.T., and Kappelman, J. Embrithopoda; pp. 115-122 in Werdelin, L., and Sanders, W.J. (eds.), *Cenozoic Mammals of Africa*. Berkeley, University of California Press.

MacLatchy, L.M., DeSilva, J., Sanders, W.J., and Wood, B. Hominini; pp. 471-542 in Werdelin, L., and Sanders, W.J. (eds.), *Cenozoic Mammals of Africa*. Berkeley, University of California Press.

Sanders, W.J., and Werdelin, L. Introduction; pp. xvii-xxi in Werdelin, L., and Sanders, W.J. (eds.), *Cenozoic Mammals of Africa*. Berkeley, University of California Press.

2009

Gingerich, P.D., ul-Haq, M., Koenigswald, W. von, Sanders, W.J., Smith, B.H., and Zalmout, I.S. New protocetid whale from the middle Eocene of Pakistan: Birth on land, precocial development, and sexual dimorphism. *PLoS One* **4**(2):e4366. doi:10.1371/journal.pone.0004366.

2008

Sanders, W.J. Review of fossil Proboscidea from the early-middle Miocene site of Jabal Zaltan, Libya. *Garyounis Scientific Bulletin Special Issue No. 5*:217-239.

Sanders, W.J. Review of fossil Proboscidea from the late Miocene-early Pliocene site of As Sahabi, Libya. *Garyounis Scientific Bulletin Special Issue No. 5*:245-260.

2007

Sanders, W.J. Taxonomic review of Proboscidea (Mammalia) from Langebaanweg, South Africa. *Transactions of the Royal Society of South Africa* **62**:1-16.

Pobiner, B.L., DeSilva, J., Sanders, W.J., and Mitani, J.C. Taphonomic analysis of skeletal remains from chimpanzee hunts at Ngogo, Kibale National Park, Uganda. *Journal of Human Evolution* **52**:614-636.

2006

Shoshani, J., Walter, R.C., Abraha, M., Berhe, S., Tassy, P., Sanders, W.J., Marchant, G.H., Libsekal, Y., Ghirmai, T., and Zinner, D. A proboscidean from the late Oligocene of Eritrea, a "missing link" between early Elephantiformes and Elephantimorpha, and biogeographic implications. *Proceedings of the National Academy of Sciences, USA* **103**:17296-17301.

Trapani, J., Sanders, W.J., Mitani, J.C., and Heard, A. Precision and consistency of the taphonomic signature of predation by crowned hawk-eagles (*Stephanoaetus coronatus*) in Kibale National Forest, Uganda. *Palaios* **21**:114-131.

2005

Jacobs, B.F., Tabor, N., Feseha, M., Pan, A., Kappelman, J., Rasmussen, D.T., Sanders, W.J., Wiemann, M., Crabaugh, J., and Massini, J.L.G. Oligocene terrestrial strata of northwestern Ethiopia: A preliminary report on paleoenvironments and paleontology. *Palaeontologia Electronica* **8**:19 pp.

2004

Sanders, W.J., Kappelman, J., and Rasmussen, D.T. New large-bodied mammals from the late Paleogene site of Chilga, Ethiopia. *Acta Palaeontologica Polonica* **49**:365-392.

2003

Kappelman, J., Rasmussen, D.T., Sanders, W.J., Feseha, M., Bown, T., Copeland, P., Crabaugh, J., Fleagle, J., Glantz, M., Gordon, A., Jacobs, B., Maga, M., Muldoon, K., Pan, A., Pyne, L., Richmond, B., Ryan, T., Seiffert, E.R., Sen, S., Todd, L., Wiemann, M.C., and Winkler, A. Oligocene mammals from Ethiopia and faunal exchange between Afro-Arabia and Eurasia. *Nature* **426**:549-552.

Sanders, W.J., Trapani, J., and Mitani, J.C. Taphonomic aspects of crowned hawk-eagle predation on monkeys. *Journal of Human Evolution* **44**:87-105.

- Sanders, W.J. Proboscidea; pp. 202-219 in Fortelius, M., Kappelman, J., Sen, S., and Bernor, R.L. (eds.), *Geology and Paleontology of the Miocene Sinap Formation, Turkey*. New York, Columbia University Press.
- 2002
Sanders, W.J., and Miller, E.R. New proboscideans from the early Miocene of Wadi Moghara, Egypt. *Journal of Vertebrate Paleontology* **22**:388-404.
- 2001
Shoshani, J., Sanders, W.J., and Tassy, P. Elephants and other proboscideans: A summary of recent findings and new taxonomic suggestions; pp. 676-679 in Cavarretta, G., Gioia, P., Mussi, M., and Palombo, M.R. (eds.), *Proceedings of the 1st International Congress, Rome 2001, The World of Elephants*. Rome, Consiglio Nazionale delle Ricerche.
- Mitani, J.C., Sanders, W.J., Lwanga, J.S., Windfelder, T.L. Predatory behavior of crowned hawk-eagles (*Stephanoaetus coronatus*) in the Kibale National Park, Uganda. *Behavioral Ecology and Sociobiology* **49**:187-195.
- 1999
Sanders, W.J. Oldest record of *Stegodon* (Mammalia: Proboscidea). *Journal of Vertebrate Paleontology* **19**:793-797.
- 1998
Sanders, W.J. Comparative study of the australopithecine vertebral series Stw-H8/H41. *Journal of Human Evolution* **34**:249-302.
- 1997
Gingerich, P.D., Arif, M., Bhatti, M.A., Anwar, M., and Sanders, W.J. *Basilosaurus punjabicus* and *Basiloterus eamesi*, new Archaeoceti (Mammalia, Cetacea) from the middle-to-late Eocene Drazinda Formation, with a revised interpretation of ages of whale-bearing strata in the Kirthar Group of the Sulaiman Range, Punjab (Pakistan). *Contributions from the Museum of Paleontology, The University of Michigan* **30**:55-81.
- Sanders, W.J. Fossil Proboscidea from the Wembere-Manonga Formation, Manonga Valley, Tanzania; pp. 265-310 in T. Harrison (ed.), *Neogene Paleontology of the Manonga Valley, Tanzania*. New York, Plenum Press.
- 1994
Sanders, W.J., and Bodenbender, B. Morphometric analysis of lumbar vertebra UMP 67-28: Implications for spinal function and phylogeny of the Miocene Moroto hominoid. *Journal of Human Evolution* **26**:203-237.
- 1992
Zhou, X., Sanders, W.J., and Gingerich, P.D. Functional and behavioral implications of vertebral structure in *Pachyaena ossifraga*. *Contributions from the Museum of Paleontology, The University of Michigan* **28**:203-237.
- Boaz, N.T., Bernor, R.L., Brooks, A.S., Cooke, H.B.S., de Heinzelin, J., Dechamps, R., Delson, E., Gentry, A.W., Harris, J.W.K., Meylan, P., Pavlakis, P.P., Sanders, W.J., Stewart, K.M., Verniers, J., Williamson, P.G., and Winkler, A.J. A new evaluation of the significance of the late Neogene Lusso Beds, Upper Semliki Valley, Zaire. *Journal of Human Evolution* **22**:505-517.
- 1990
Sanders, W.J. Fossil Proboscidea from the Pliocene Lusso Beds of the Western Rift, Zaire; pp. 171-187 in N.T. Boaz (ed.), *Evolution of Environments and Hominidae in the African Western Rift Valley*. Martinsville, Virginia Museum of Natural History.
- Bernor, R.L., and Sanders, W.J. Fossil Equidae from Plio-Pleistocene strata of the Upper Semliki, Zaire; pp. 189-196 in N.T. Boaz (ed.), *Evolution of Environments and Hominidae in the African Western Rift Valley*. Martinsville, Virginia Museum of Natural History.

BOOK REVIEWS

In Press

- In the Steppes of Central Asia: Mammoth Carcasses, Fossil Flora, and Reconstruction of Northern Siberian Paleoclimate and Paleoecology in the Late Pleistocene (Mammoths and the Environment, Valentina Ukraintseva). *Journal of Mammalian Evolution*.

2013

The Universe Within. Discovering the Common History of Rocks, Planets, and People (Neil Shubin). *Washington Independent Review of Books*. <http://washingtonindependentreviewofbooks.com>.

2012

Masters of the Planet: The Search for our Human Origins (Ian Tattersall). *Washington Independent Review of Books*. <http://washingtonindependentreviewofbooks.com>.

2011

The Fossil Chronicles: How Two Controversial Discoveries Changed our View of Human Evolution (Dean Falk). *Washington Independent Review of Books*. <http://washingtonindependentreviewofbooks.com>.

2004

Lothagam. The Dawn of Humanity in Eastern Africa (Meave Leakey and John Harris, eds.). *Journal of Mammalian Evolution* **11**:293-296.

ABSTRACTS

Submitted

Kingston, J., MacLatchy, L., Cote, S., and Sanders, W.J. Isotopic perspectives on the dietary ecology of early Miocene catarrhines. *American Journal of Physical Anthropology* (2016 AAPA Annual Meeting).

2015

Sanders, W.J., Bibi, F., Beech, M.J., Fox, M., and Hill, A. Taxonomic, developmental, and evolutionary implications of morphological evaluation of archaic late Miocene elephants from the Bayunah Formation, Abu Dhabi Emirate, United Arab Emirates. *Journal of Vertebrate Paleontology, Program and Abstracts* **2015**:207.

Semprebon, G.M., Sanders, W.J., Lister, A., Morgan, M.E., Cerling, T.E., Rivals, F., Göhlich, U., and Fahlke, J.M. Dietary Reconstruction of fossil proboscideans from the Siwalik Series of Pakistan using enamel microwear and carbon isotopes. *Journal of Vertebrate Paleontology, Program and Abstracts* **2015**:211-212.

2014

Sanders, W.J., and Seiffert, E. Proboscideans from the late Eocene Birket Qarun Formation of northern Egypt, and their biochronological implications. *Journal of Vertebrate Paleontology, Program and Abstracts* **2014**:220-221.

Lehmann, T., Peppe, D.J., Driese, S.G., Jenkins, K., Sanders, W.J., and McNulty, K. New fieldwork at Karungu (early Miocene; Lake Victoria, Kenya): Preliminary paleontological and geological results. *Journal of Vertebrate Paleontology, Program and Abstracts* **2014**:168.

Semprebon, G., Rivals, F., Fahlke, J., Sanders, W.J., Lister, A., and Göhlich, U. The effect of insular dwarfism on dietary niche occupation in pygmy mammoths from the Channel Islands of California. *Journal of Vertebrate Paleontology, Program and Abstracts* **2014**:227.

Winkler, A., Gunnell, G., Miller, E., Sanders, W.J., El-Barkooky, A., Abdelgawad, M., and Gingerich, P. *Africanomys* (Rodentia: Ctenodactylinae) and a new species of Hipposideridae (Chiroptera) from the Miocene Khasm el-Raqaba locality, Eastern Desert, Egypt. *Journal of Vertebrate Paleontology, Program and Abstracts* **2014**:256.

Semprebon, G., Rivals, F., Fahlke, J., Sanders, W.J., Lister, A., and Göhlich, U. The effect of insular dwarfism on dietary niche occupation in mammoths: What were the pygmy mammoths from Santa Rosa Island of California eating? *Scientific Annals, School of Geology, Aristotle University of Thessaloniki, Greece, Special Volume* **102**:182-183.

2013

Sanders, W.J. Classification and biochronology of African Miocene proboscideans. *Journal of Vertebrate Paleontology, Program and Abstracts* **2013**:204.

2012

Sanders, W.J., and Gunnell, G.F. Ontogenetic, behavioral and evolutionary considerations of cranial polymorphism in early Oligocene *Aegyptopithecus zeuxis* (Catarrhini, Primates). *Journal of Vertebrate Paleontology, Program and Abstracts* **2012**:165.

Noret, J., Tabor, N., Jacobs, B., Sanders, W.J., and Kappelman, J. Stable isotope data from the Chilga Basin, Ethiopia, and their implications for resource partitioning among late Paleogene African endemic mammals. *Journal of Vertebrate Paleontology, Program and Abstracts* **2012**:150.

2011

- Sanders, W.J., and Haile-Selassie, Y. New fossil proboscideans from mid-Pliocene Woranso-Mille, Ethiopia: Implications for elucidating the diversification and evolution of basal taxa of crown elephant lineages. *Journal of Vertebrate Paleontology, Program and Abstracts* **2011**:186.
- Kingston, J., MacLatchy, L., Cote, S., Kityo, R., and Sanders, W.J. Isotopic evidence of paleoenvironments and niche partitioning of early Miocene fossil fauna from Napak and Moroto, Uganda. *Journal of Vertebrate Paleontology, Program and Abstracts* **2011**:136.

2010

- Sanders, W.J. Afro-Arabia as the crucible of proboscidean evolution. *Journal of Vertebrate Paleontology, Program and Abstracts* **2010**:156A-157A.
- Zalmout, I., Ali, M.A., MacLatchy, L.M., Sanders, W.J., and Gingerich, P.D. Cranium of a new Oligocene primate from Saudi Arabia and the divergence of apes and Old World monkeys. *Journal of Vertebrate Paleontology, Program and Abstracts* **2010**:191A.
- Sanders, W.J., Zalmout, I.S., MacLatchy, L.M., Gunnell, G.F., Al-Mufarreh, Y., Ali, M.A.m, Nasser, A.-A. H., Al-Masary, A.M., Wilson, J.A., and Gingerich, P.D. A new Oligocene catarrhine primate from Saudi Arabia and ancestry of Old World monkeys and apes. *American Journal of Physical Anthropology* **Supplement 50**:205.
- Barrett, L., Gingerich, P.D., Gunnell, G.F., Sanders, W.J., and Zalmout, I. Molding and casting a fossil whale from Egypt. *2010 Spring Research Symposium Abstracts, Undergraduate Research Opportunity Program, University of Michigan.*

2009

- Kingston, J., MacLatchy, L., Kityo, R., and Sanders, W.J. Paleoenvironments of early Miocene vertebrate localities at Napak and Moroto, Uganda: Lithofacies and isotopic analyses. *Journal of Vertebrate Paleontology* **29(3)**:127A.
- Cherney, M., Sanders, W.J., Gingerich, P.D., Zalmout, I., and Antar, M. Production of multi-purpose molds for versatile, detailed replication of large-scale fossils: The *Basilosaurus isis* casting project as an exemplar. *Journal of Vertebrate Paleontology* **29(3)**:77A.
- Chow, E., Gingerich, P.D., Zalmout, I., Sameh, M., Sanders, W.J., and Gunnell, G.F. Examining the paleobiology of *Basilosaurus isis* via reconstruction. *2009 Spring Symposium Student Abstracts, Undergraduate Research Opportunity Program, University of Michigan.*
- Lampton, J., Gingerich, P.D., Zalmout, I., Sameh, M., Sanders, W.J., and Gunnell, G.F. Uncovering the mysteries of the fossil world. *2009 Spring Symposium Student Abstracts, Undergraduate Research Opportunity Program, University of Michigan.*
- Schwabel, A., Gingerich, P.D., Zalmout, I., Sameh, M., Sanders, W.J., and Gunnell, G.F. Molding and casting a fossil whale from Egypt. *2009 Spring Symposium Student Abstracts, Undergraduate Research Opportunity Program, University of Michigan.*

2008

- Sanders, W.J., Graf, J., Zalmout, I., Ul-Haq, M., and Gingerich, P.D. Restoration and three-dimensional assembly of a nearly complete, articulated Eocene protocetid whale skeleton from Pakistan. *Journal of Vertebrate Paleontology* **28, Supplement to Number 3**:136A.
- MacLatchy, L., Cote, S., Orliac, M., Sanders, W.J., and Winkler, A. The faunal age of Moroto I and II, Uganda. *Journal of Vertebrate Paleontology* **28, Supplement to Number 3**:110A.

2007

- Sanders, W.J. Taxonomy, biochronology, and paleoecology of late Miocene-early Pliocene proboscideans from Langebaanweg, South Africa. *Journal of Vertebrate Paleontology* **27, Supplement to Number 3**:140A.
- Heard, A., Graf, J., and Sanders, W.J. A multi-media solution to complex molding and casting of internal and external surfaces of a fossil *Homo erectus* cranium from Java. *Journal of Vertebrate Paleontology* **27, Supplement to Number 3**:88A.
- Pobiner, B.L., DeSilva, J., Sanders, W.J., and Mitani, J.C. Taphonomy of primate skeletal remains from chimpanzee hunts at Ngogo, Kibale National Park, Uganda. *American Journal of Physical Anthropology* **Supplement 44**:190.

2006

Sanders, W.J. Comparative description and taxonomy of proboscidean fossils from Langebaanweg, South Africa. *African Natural History* **2**:196-197.

2005

Sanders, W.J. New Pliocene fossil proboscidean specimens from Laetoli, Tanzania. *Journal of Vertebrate Paleontology* **25**, **Supplement to Number 3**:109A.

2004

Sanders, W.J. Taxonomic and systematic review of Elephantidae based on late Miocene-early Pliocene fossil evidence from Afro-Arabia. *Journal of Vertebrate Paleontology* **24**, **Supplement to Number 3**:109A.

2003

Kappelman, J., Sanders, W.J., Muldoon, K.M., and Rasmussen, D.T. Large mammals from the late Oligocene of Ethiopia. *International Paleoanthropological Conference. Ethiopia and Paleoanthropology: Integrating Science and the National Interest. National Museum of Ethiopia, Addis Ababa, January 13-14, 2003.*

Sanders, W.J. The relationship between lumbosacral structure, function, and positional behavior in australopithecines (Mammalia, Hominidae). *Journal of Vertebrate Paleontology* **23**(3):93A.

Groenke, J., and Sanders, W.J. Reproduction of fossils: From mother-molds to full-grown mounted skeletons (an overview and suggestions). *Journal of Vertebrate Paleontology* **23**(3):57A-58A.

2002

Sanders, W.J., and Kappelman, J. A new, transitional late Oligocene proboscidean assemblage from Chilga, Ethiopia. *Journal of Vertebrate Paleontology* **22**, **Supplement to Number 3**:102A.

Sanders, W.J. Implications of lumbosacral vertebral morphology in catarrhine primates for australopithecine spinal function and positional behavior. *Geological Society of America Abstracts with Programs* **34**(2):A13-A14.

2001

Shoshani, J., Tassy, P., and Sanders, W.J. Recent advances in studies on elephants and other proboscideans. *Scientific Programme and Abstracts, 8th International Theriological Congress* **2001**:129.

Sanders, W.J., and Kappelman, J. A new, late Oligocene proboscidean fauna from Chilga, Ethiopia. *Scientific Programme and Abstracts, 8th International Theriological Congress* **2001**:120.

Mundinger, G.S., and Sanders, W.J. Taxonomic and systematic re-assessment of the Mio-Pliocene elephant *Primelephas gomphotheroides*. *Scientific Programme and Abstracts, 8th International Theriological Congress* **2001**:102.

Miller, E.R., and Sanders, W.J. New fossil proboscideans from Wadi Moghara, Egypt. *Scientific Programme and Abstracts, 8th International Theriological Congress* **2001**:97.

2000

Sanders, W.J., and Mitani, J.C. Taphonomic aspects of eagle predation of primates from Kibale Forest, Uganda. *American Journal of Physical Anthropology* **Supplement 30**:267-268.

Feseha, M., Kappelman, J., Rasmussen, D.T., Sanders, W.J., Fleagle, J., Copeland, P., and Ryan, T. New sub-Saharan Oligocene fossil localities from northwestern Ethiopia. *American Journal of Physical Anthropology* **Supplement 30**:147-148.

1999

Harrison, T., and Sanders, W.J. Scaling of lumbar vertebrae in anthropoid primates: Its implications for the positional behavior and phylogenetic affinities of *Proconsul*. *American Journal of Physical Anthropology* **Supplement 28**:146.

1998

Sanders, W.J. New proboscidean fossils from the Sinap Formation, Central Turkey. *Journal of Vertebrate Paleontology* **18**:75A.

1997

Sanders, W.J. Development of a new exhibit on the origin of whales: Technical methods and scientific considerations. *Journal of Vertebrate Paleontology* **17**:73A.

1996

Sanders, W.J. Fossil proboscideans of the Manonga Valley, Tanzania. *Journal of Vertebrate Paleontology* **16**:62A-63A.

Sanders, W.J. Implications of structure and scaling of catarrhine lumbosacral vertebrae for australopithecine positional behavior. *American Journal of Physical Anthropology* **Supplement 22**:206-207.

1994

Sanders, W.J. Comparative architecture and function of erector spinae muscles and iliolumbar ligaments in catarrhines. *American Journal of Physical Anthropology* **Supplement 18**:176.

1992

Zhou, X., Sanders, W.J., and Gingerich, P.D. Functional and behavioral implications of vertebral structure in *Pachyaena ossifraga*. *Journal of Vertebrate Paleontology* **12**:62A.

Sanders, W.J. Morphological affinities of the Moroto lumbar vertebra, U.M.P. 67-28: Implications for the spinal function and phylogeny of *Afropithecus*. *American Journal of Physical Anthropology* **Supplement 14**:145.

1991

Sanders, W.J. Comparative study of hominoid lumbar neural canal dimensions. *American Journal of Physical Anthropology* **Supplement 12**:157.

1990

Sanders, W.J. Weight transmission through the lumbar vertebrae and sacrum in australopithecines. *American Journal of Physical Anthropology* **81**:289.

1988

Martin, L.B., Boyde, A., and Sanders, W.J. Identification of a putative fossil gorilla from Kazinga, Uganda. *American Journal of Physical Anthropology* **75**:246.

1983

Sanders, W.J. Presence in gorillas of a lateral tubercle on the trapezium and its implications for wrist stability. *American Journal of Physical Anthropology* **60**:248.

FIELDWORK

2015

San Juan Basin, New Mexico (Paleocene and early Eocene mammals; site visit)

2014

Shuwaihat and Mleisa, Al Gharbia Region, United Arab Emirates (late Miocene mammals and elephant trackways; site visits)

2008

Khasam el Raqaba, eastern Sahara, Egypt (Eocene and Miocene mammals)

2007

Napak and Moroto, Uganda (Miocene mammals)

2004

Eyasi Plateau-Laetoli Paleontological Expedition, Tanzania (Pliocene mammals)

Olduvai Gorge, Tanzania (Pleistocene mammals; site visit)

2003

Chilga Geological and Paleontological Expedition, Ethiopia (Oligocene mammals)

2001

Cooper's Cave, South Africa (Pleistocene hominids; site visit)

1998

Eyasi Plateau-Laetoli Paleontological Expedition, Tanzania (Pliocene mammals)

1996

Geological Survey of Pakistan-University of Michigan Paleontological Expedition, Punjab Province, Pakistan (Eocene marine mammals)

Siwalik Sequence, Pakistan (site visit)

1995

Sinap Formation Survey Project, Ankara Region, Turkey (Miocene mammals)

1994

Wembere-Manonga Paleontological Expedition, Manonga Valley, Tanzania (Miocene-Pliocene mammals)

1993

Zeuglodon Valley (Wadi Hitan) and Qasr el Sagha Formation Expedition, western Sahara, Egypt (Eocene marine mammals)

Duke University Fayum Expedition, Fayum, Egypt (Eocene-Oligocene mammals)

1992

Wembere-Manonga Paleontological Expedition, Manonga Valley, Tanzania (Miocene-Pliocene mammals)

1991

Zeuglodon Valley (Wadi Hitan) Expedition, western Sahara, Egypt

Duke University Fayum Expedition, Fayum, Egypt (Eocene-Oligocene mammals)

1990

Michigan Geology Research, Bighorn Basin, Wyoming (Paleocene-Eocene mammals)

1989

Michigan Geology Research, Bighorn and Bridger Basins, Wyoming (Paleocene-Eocene mammals)

Zeuglodon Valley (Wadi Hitan) and Qasr el Sagha Formation Expedition, western Sahara (Eocene marine mammals)

Duke University Fayum Expedition, Fayum, Egypt (Eocene-Oligocene mammals)

1988

Michigan Geology Research, Bighorn Basin, Wyoming (Paleocene-Eocene mammals)

1985

Semliki Research Expedition, Western Rift Valley, Zaire (DRC) (Pliocene-Pleistocene mammals; archeology)

1983-1984

Semliki Research Expedition, Western Rift Valley, Zaire (DRC) (Miocene-Pleistocene mammals; archeology)

Sterkfontein, Swartkrans, Kromdraai, South Africa (Pliocene-Pleistocene hominids; site visits)

1982

Western Rift Preliminary Survey Project, Sinda-Mohari Region, Zaire (DRC) (Miocene-Pliocene mammals)

RESEARCH TRAVEL

2014

Coastal Heritage and Palaeontology Section, Historic Environment Department, Abu Dhabi, United Arab Emirates, (Miocene Baynunah Formation proboscideans)

Museum für Naturkunde, Berlin, Germany (Fayum proboscideans; Olduvai Gorge elephants)

2013

Duke University, Division of Fossil Primates (Fayum Anthropoids); Department of Evolutionary Anthropology (CT-scan analysis of *Aegyptopithecus zeuxis* crania)

The Natural History Museum, London, United Kingdom (Siwalik Series proboscideans; Dur at Talhah proboscideans)

2009

Cairo Geological Museum, Egypt (Birket Qarun moeritheres; Wadi Moghara proboscideans; Fayum arsinotheres)

Cairo University, Egypt (Wadi Moghara proboscideans)

National Museum of Ethiopia, Addis Ababa, Ethiopia (Proboscideans from Woronso-Mille, Hadar, and Gona)

2007

Ugandan Museum, Kampala, Uganda (Miocene mammals of Napak and Moroto; Miocene-Pliocene mammals of the Western Rift)

2005

South African Museum (IZIKO), Cape Town, South Africa (Langebaanweg and Vaal River proboscideans)

Kenya National Museum, Nairobi, Kenya (Miocene-Pliocene proboscideans)

The Natural History Museum, London, United Kingdom (Eocene-Pleistocene proboscideans)

Duke University, Division of Fossil Primates (Eocene-Oligocene proboscideans)

2004

National Museum of Ethiopia, Addis Ababa, Ethiopia (Oligocene mammals from Chilga)
National Museum of Tanzania, Dar es Salaam, Tanzania (Miocene-Pliocene mammals from the Manonga Valley and Laetoli)

2003

National Museum of Ethiopia, Addis Ababa, Ethiopia (Oligocene mammals from Chilga; Miocene-Pliocene elephants from the Middle Awash; Miocene gomphotheres and deinotheres from Fejej)
Department of Vertebrate Paleontology, American Museum of Natural History, New York (Fayum proboscideans and early-middle Pleistocene hominids from Atapuerca, Spain)

2001

Transvaal Museum, Pretoria, South Africa (Pliocene-Pleistocene hominids)
Sterkfontein Research Unit, University of the Witwatersrand, Johannesburg, South Africa (Pliocene-Pleistocene hominids)

2000

National Museum of Ethiopia, Addis Ababa, Ethiopia (Oligocene mammals from Chilga; Miocene-Pliocene elephants from the Middle Awash; Miocene gomphotheres and deinotheres from Fejej; hominid vertebrae)

1997

Department of Vertebrate Paleontology and Department of Mammalogy, American Museum of Natural History, New York (Extant anthropoid postcrania and fossil notharctine primate vertebrae)
The Natural History Museum, London, United Kingdom (Miocene-Pliocene African and South Asian proboscideans)
Kenya National Museum, Nairobi, Kenya (Miocene-Pliocene mammals from Lothagam, Tugen Hills, Ft. Ternan, Mwititi, and Maboko)

1996

Geological Survey of Pakistan, Islamabad, Pakistan (Miocene-Pliocene mammals from the Chitarwata Formation and Siwalik Series)

1995

Ankara University, Ankara, Turkey (Miocene proboscideans from Pasalar)

1994

National Museum of Tanzania, Dar es Salaam, Tanzania (Miocene-Pliocene mammals from the Manonga Valley)

1993

Muséum National d'Histoire Naturelle, Paris, France (Pliocene-Pleistocene African proboscideans)
The Natural History Museum, London, United Kingdom (Miocene-Pliocene African and South Asian proboscideans)

1992

National Museum of Tanzania, Dar es Salaam, Tanzania (Miocene-Pliocene mammals from the Manonga Valley)

1990

Mammalogy Department, National Museum of Natural History, Washington, D.C. (Catarrhine primate vertebrae)
Department of Mammalogy, American Museum of Natural History, New York (Catarrhine primate vertebrae)
Department of Mammalogy, Field Museum, Chicago (Anthropoid primate vertebrae)

1989

Anthropology Section, Cleveland Museum of Natural History, Cleveland (Catarrhine primate vertebrae)

1987

Department of Mammalogy, American Museum of Natural History, New York (Catarrhine primate vertebrae)

1986

Department of Mammalogy, American Museum of Natural History, New York (Catarrhine primate vertebrae; Old World proboscideans)
Mammalogy Department, National Museum of Natural History, Washington, D.C. (Catarrhine primate vertebrae)

1985

The Natural History Museum, London, United Kingdom (Miocene-Pliocene African and South Asian proboscideans)

Mammalogy Department, National Museum of Natural History, Washington, D.C. (Occlusal variation in extant elephant dentitions)

1984

The Natural History Museum, London, United Kingdom (Kaiso Series mammals)

Muséé Royal de l'Afrique Centrale, Tervuren, Belgium (Kaiso Series mammals)

1983

Sterkfontein Research Unit, University of the Witwatersrand, Johannesburg, South Africa (Pliocene-Pleistocene hominids)

Transvaal Museum, Pretoria, South Africa (Pliocene-Pleistocene hominids)

1982

Lamont-Doherty Geological Observatory, Columbia University, Palisades, New York (Opal phytolith content in ocean cores)

PRESENTATIONS, INVITED TALKS, AND SYNERGISTIC ACTIVITIES

2015

Molding and casting workshop-science lab. Morton Elementary School, Arlington Independent School District, Texas (October)

"Biogeography and biostratigraphy of early Afro-Arabian proboscideans and embrithopods." The Colonization of Africa by Early Anthropoid Primates, NSF Team Seminar, School for Advanced Research, Santa Fe, New Mexico (March)

2014

"Last gomphotheres and first elephants at the crossroads of evolution: Evidence from the Baynunah Formation." Baynunah Palaeontology Conference, Abu Dhabi, United Arab Emirates (December)

Featured article about my research on early mammoths, in *Evolve* magazine, The Natural History Museum, London: "Why I'm inspired by The Natural History Museum" (May)

"Bimaturism of facial ontogeny and social behavior in the early Oligocene primate *Aegyptopithecus zeuxis*." A. Watson Armour Seminar Series, Field Museum, Chicago (April)

"The role of university-based museums in the 21st Century." Old Capitol Museum, Pentacrest Museums, University of Iowa (March)

2013

"Behavioral implications of cranial polymorphism in *Aegyptopithecus zeuxis* (Primates, Catarrhini)." Department of Evolutionary Anthropology, Duke University (November)

2012

"First footsteps to humanity: The australopithecines." Mott Community College, Flint, Michigan (April)

2011

"Some aspects of Siwalik Group proboscideans." Harvard University Peabody Museum (December)

"Deciphering the evolutionary history of African Proboscidea." Department of Geological Sciences, California State University at Fullerton (February)

2010

Co-convener, symposium, "Evolution of the Modern African Fauna." 70th annual meeting, Society of Vertebrate Paleontology, Pittsburgh. With L. Werdelin (Swedish Museum of Natural History) and N. Stevens (Ohio University) (October)

2009

"A new Oligocene primate from Saudi Arabia and ancestry of Old World monkeys and apes." Department of Anatomy, Stony Brook University, New York (November)

"Molding and casting methods and applications." Department of Geology, Cairo University, Cairo, Egypt (January)

2008-2010

Molding and casting of the entire skeleton of the 65-foot-long Eocene archaeocete whale *Basilosaurus isis*, for display at Wadi Hiton and in the Natural History Museum, University of Michigan.

Undergraduate Research Opportunity Program, University of Michigan (September 2008-April 2010)

2006

- "The mosaic acquisition of vertebral adaptations to bipedality in early hominids." Department of Anthropology, New York University (April)
- Molding and casting workshop, Department of Anthropology, New York University (April)
- "The mosaic acquisition of vertebral adaptations to bipedality in early hominids." Department of Anatomy, Stony Brook University, New York (April)

2001

- Co-convenor, symposium, "Recent Advances in Studies on Elephants and Other Proboscideans." 8th International Theriological Congress, Sun City, South Africa. With J. Shoshani (Wayne State University) and P. Tassy (Muséum National d'Histoire Naturelle, Paris) (August)
- "Functional and behavioral implications of australopithecine vertebral morphology." Department of Anthropology, Yale University (April)
- "The facts, theories, and paths of human evolution." Wallace Faculty Seminar on "Evolution, a Theory in Crisis?" Macalester College, St. Paul, Minnesota (March)

1998

- "Anatomy, behavior, and ecology of *Australopithecus*." Department of Anthropology, University of Colorado at Boulder (March)
- "Contrasting adaptations of australopithecines and *Homo erectus*." Friends of the Museum of Paleontology, University of Michigan Museum of Paleontology (February)
- "New thoughts about old hominids: The life and times of *Australopithecus*." Breakfast Lecture Series, Natural History Museum, University of Michigan (January)

1997

- "How to make a fossil whale exhibit." Slauson Middle School, Ann Arbor, Michigan (November)
- "Fossil journeys from field to exhibit: Giving new life to old bones." Natural History Museum, University of Michigan (October)

1996

- "Evolutionary transition(s) from land to sea in early archaeocete whales." Friends of the Museum of Paleontology, University of Michigan Museum of Paleontology (September)
- "Spinal structure and function in early hominids." Systematics and Evolutionary Biology Symposium Series, Museum of Zoology, University of Michigan (April)
- "Fossil proboscideans of the Manonga Valley, Tanzania." Department of Geology, University of Texas at Austin (March)
- "Implications of lower spinal morphology for australopithecine positional behavior." Department of Anthropology, University of Texas at Austin (March)

1994

- "Fossils: From the ground to the display case." Michigan Archaeological Society, Huron Valley Chapter, at the University of Michigan (October)
- "From field dust to bright scenarios: Making inferences about the lifeways of extinct organisms from fossils." Annual Conference, Michigan Earth Science Teachers Association, Washtenaw Community College, Ann Arbor, Michigan (September)
- "Reconstructing the paleobiology of fossil mammals." Friends of the Museum of Paleontology, University of Michigan Museum of Paleontology (September)

1989

- "Giants of the Deep: The Origins of Whales." With J. Klausmeyer. Rotunda Show, Natural History Museum, University of Michigan (December)

1986

- "New archeological and paleontological finds in the Western Rift, Zaire (1982-1986)." Department of Anthropology, New York University (September)

1983

- "Paleoecological reconstruction based on opal phytoliths in ocean cores near the West African coast." Department of Anthropology, New York University (March)

1982

- "Paleontological fieldwork in the Western Rift, Zaire." Department of Anthropology, Adelphi University (September)

PROFESSIONAL MEMBERSHIPS AND SOCIETIES

Society of Vertebrate Paleontology

Preparators (Hix) Grant Committee, 2004-2007 (Chair, 2004-2006; Acting Chair, 2007)

Preparators Committee, 2006-Present (Chair, 2006-2009)

Program Committee, 2007-Present

Archive Committee, 2010-Present

Advisory Board, NOW (Neogene Old World Mammals)

LANGUAGES

French (reading)

Swahili (some spoken)

ADVISEES

Scott Johnston, Geology, University of Michigan, "Taxonomic analysis of stegodontid proboscideans from the Siwalik Sequence, Pakistan," undergraduate research project, 2015

Ingrid Lundeen, Anthropology, University of Michigan, "Assessment of hypotheses of sacral functional morphology and bipedalism in australopithecines and early *Homo*," Honors Thesis, 2015

Enas Abd ElHady Ahmed, Department of Geology, Mansoura University, Egypt, "Vertebrate paleontological studies on the order Hyracoidea (Mammalia) in Fayum Province, Egypt," Ph.D., 2011

Ravi Shah, Evolution, Ecology, and Biology, University of Michigan, "Microwear analysis of proboscideans from the Miocene Siwaliks Sequence, Pakistan," undergraduate research project, 2011

Ikejiri Takehito, Department of Geological Sciences, University of Michigan, "Morphology of the neurocentral junction during postnatal growth of the alligator (Reptilia, Crocodylia)," Ph.D., 2010

Eric Chow, Biology, University of Michigan, "Form and function of the scapula of the protocetid whale *Maiacetus inuus*," Honors Thesis, 2010

Ian Winkelstern, Geology, University of Michigan, "Form and function of the caudal region of the protocetid whale *Maiacetus inuus*," Senior Thesis, 2010

Darcy Shapiro, Anthropology, University of Michigan, "The hominid status of *Sahelanthropus tchadensis* and *Orrorin tugenensis*," Honors Thesis, 2009

Badawi Ali, Department of Geology, Faculty of Science, Cairo University, Egypt, "Paleogene Proboscidea (Mammalia) from El Fayum, Egypt: Taxonomy and biogeography," Masters Thesis, 2008

Iyad Zalmout, Department of Geological Sciences, University of Michigan, "Description and functional-behavioral analysis of Tethyan Sirenia from Egypt," Ph.D., 2008

Jeremy DeSilva, Department of Anthropology, University of Michigan, "Vertical climbing adaptations in the talocrural and midfoot of hominoids and hominins," Ph.D., 2008

Carly Manz, Geology, University of Michigan, "Description and functional morphology of cervical vertebrae in a protocetid whale, GSP-UM 3551," Honors Thesis, 2008

Amber Heard, Anthropology, University of Michigan, "Morphological analysis of the lumbar vertebral series Stw-431 (*Australopithecus africanus*): Implications for early bipedalism and resulting pathologies," Honors Thesis, 2005

Michelle Stocker, Geology, University of Michigan, "Incisor and cheek tooth proportions and diet in living and fossil catarrhine primates," undergraduate research project, 2003

Douglas Boyer, Geology, University of Michigan, "New skeletons of Paleocene paromomyids (Mammalia: ?Primates): Were they mitten gliders?," Honors Thesis, 2002

Peter Rose, Geology, University of Michigan, "Comparative morphometric analysis of the sacrum of early hominids," undergraduate research project, 2002

Gerhard Munding, Biology, University of Michigan, "Re-assessment of the taxonomy and phylogenetic relationships of the Mio-Pliocene elephant *Primelephas*," undergraduate research project, 2001

John Finarelli, Department of Geology, University of New Hampshire, "A phylogenetic re-assessment of the Hominoidea (Mammalia, Primates) incorporating morphologic and temporal data," Masters Thesis, 2001

Kenneth Angielczyk, Geology, University of Michigan, "New specimen of cf. *Asiatosuchus* (Crocodyloidea) from the middle Eocene Drazinda Formation of the Sulaiman Range, Punjab (Pakistan)," undergraduate research project, 1998

Kiri Tollaksen, School of Music, University of Michigan. Performance: cornetto, trumpet, and saxhorn. Ph.D., 1998