

CURRICULUM VITAE ROBERT L. ANEMONE

Academic Position

Professor and Head of Anthropology
University of North Carolina
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Research Appointments

Research Associate
Department of Mammalogy
American Museum of Natural History
Central Park West at 79th Street
New York, NY 10024-5192

Research Associate
Section of Vertebrate Paleontology
Carnegie Museum of Natural History
4400 Forbes Ave
Pittsburgh, PA 15213

Education

Ph.D. University of Washington
Biological Anthropology
March 1988

B.A. University of Oregon
Anthropology
December 1976

Miami University, Ohio
1972-1975

Dissertation

"The Functional Morphology of the Prosimian Hindlimb: Some Correlates Between Anatomy and Positional Behavior" Thesis Advisor: Gerald G. Eck.
Committee: Daris R. Swindler (deceased), John M. Rensberger, Peter A. Nute (deceased)

Employment History

8/2013-present Professor and Head of Anthropology, UNCG, Greensboro, NC
8/10-8/13 Professor of Anthropology, Western Michigan University, Kalamazoo, MI
9/97-7/10 Associate Professor, Western Michigan University, Kalamazoo, MI
9/96-8/99 Associate Professor of Anthropology, State University of New York, Geneseo, NY
9/89-8/96 Assistant Professor of Anthropology, State University of New York, Geneseo, NY
9/91-6/92 & 1/89-6/89 Assistant Professor of Anthropology, Tulane University, New Orleans, LA

Areas of Research Expertise

Functional anatomy and biomechanics of primate locomotor systems; Dental development and life history among humans and apes; Vertebrate paleontology, Human and primate evolution, Eocene primates; Geographic Information Systems, Remote Sensing; Race and human biological diversity.

Books (N = 3)

RL Anemone (2010) *Race and Human Biological Diversity: A Bio-Cultural Approach*. Prentice Hall, Upper Saddle River, NJ. ISBN-13: 978-0-13-183876-5

RL Anemone, Ed. (2009) *Race, Biology, and Culture: A Reader*. 2nd. Edition, Kendall/Hunt Publishing Co., Dubuque, IA. ISBN-13: 978-0-7575-8887-7

LA Winkler, **RL Anemone**, Eds. (1996) *Recent Developments in the Study of Hominoid Ontogeny*. Special Issue, American Journal of Physical Anthropology, 99:1-222.

Articles and Book Chapters (N = 29)

B Nachman, **RL Anemone**, KC Beard (in prep) New Primates (Omomyidae) from the Early Eocene of the Great Divide Basin, Wyoming. *Annals of the Carnegie Museum*.

RL Anemone, B Nachman, R Watkins, KC Beard (in prep) The Smiley Draw Local Fauna: A new Wasatchian mammalian fauna from the Great Divide Basin, southwestern Wyoming. *Annals of the Carnegie Museum*.

RL Anemone, W Dirks, KC Beard, R Watkins, W Moore, J Van Regenmorter, B Nachman (Submitted) A new Clarkforkian mammalian fauna from the Fort Union Formation of the Great Divide Basin, southwestern Wyoming. *Annals of the Carnegie Museum*.

RL Anemone, CW Emerson (2014) Fossil GPS. *Scientific American*, 310: 46-51 (May 2014).

RL Anemone, MM Skinner, W Dirks (2012) Are there two distinct types of hypocone in Eocene primates? The “pseudohypocone” of notharctines revisited. *Palaeontologia Electronica*, 15.3.26A (<http://palaeo-electronica.org/content/2012-issue-3-articles/306-hypocones-in-eocene-adapids>).

GC Conroy, CW Emerson, **RL Anemone**, KEB Townsend (2012) Let your fingers do the walking: a simple spectral signature model for “remote” fossil prospecting. *Journal of Human Evolution*, 63: 79-84.

RL Anemone, MR Dawson, KC Beard (2012) The early Eocene rodent *Tuscahomys* (Cylindrodontidae) from the Great Divide Basin, Wyoming: Phylogeny, biogeography, and paleoecology. *Annals of the Carnegie Museum*, 80 (3): 187-205.

CW Emerson, **RL Anemone** (2012) An artificial neural network approach to identifying mammalian fossil localities in the Great Divide Basin, Wyoming. *Remote Sensing Letters*, 3:453-460.

RL Anemone, GC Conroy, CW Emerson (2011) GIS and Paleoanthropology: Incorporating New Approaches from the Geospatial Sciences in the Analysis of Primate and Human Evolution. *Yearbook of Physical Anthropology*, 54:19-46.

RL Anemone, CW Emerson, GC Conroy (2011) Finding Fossils in New Ways: An Artificial Neural Network Approach to Predicting the Location of Productive Fossil Localities. *Evolutionary Anthropology*, 20:169-180.

W Dirks, **RL Anemone**, PA Holroyd, DJ Reid, P Walton (2009) Phylogeny, life history and the timing of crown formation in two archaic ungulates, *Meniscotherium* and *Phenacodus* (Mammalia, “Condylarthra”). IN: *Comparative Dental Morphology: Frontiers of Oral Biology*, 13:3-8. T Koppe, G Meyer, and KW Alt, Eds. Karger, Basel.

RL Anemone, W Dirks (2009) An anachronistic mammal fauna from the Paleocene Fort Union Formation (Great Divide Basin, Wyoming, USA). *Geologica Acta* 7:113-124.

GC Conroy, **RL Anemone**, J Van Regenmorter, A Addison (2008) Google Earth, GIS, and the Great Divide: a new and simple method for sharing paleontological data. *Journal of Human Evolution* 55:751-5.

JR Siebert, **RL Anemone** (2008) Obituary: Daris Swindler (1925-2007). *American Journal of Physical Anthropology* 137: 1-3.

RL Anemone, B Nachman (2003) Morphometrics, functional anatomy, and the biomechanics of locomotion among tarsiers. IN: *Tarsiers: Past, Present, and Future*. PC Wright, EL Simons, & S Gursky, Eds. New Brunswick, Rutgers University Press, pp. 97-120.

RL Anemone (2002) Dental development and life history in hominid evolution. IN: *Human Evolution through Developmental Change*. N Minugh-Purvis and K McNamara, Eds. Baltimore, The Johns Hopkins University Press, pp. 249-280.

RL Anemone, HH Covert (2000) New skeletal remains of *Omomys* (Primates, Omomyidae): Functional morphology of the hindlimb and locomotor behavior of a middle Eocene primate. *Journal of Human Evolution* 38:607-633.

RL Anemone, DR Swindler (1999) Heterochrony and sexual dimorphism in the skull of the Liberian chimpanzee (*Pan troglodytes verus*). *International Journal of Anthropology* 14:19-30.

DR Swindler, LM Emel, **RL Anemone** (1998) Dental variability of the Liberian chimpanzee (*Pan troglodytes verus*). *Human Evolution* 13:235-249.

RL Anemone (1996) Obituary: Elizabeth Smithgall Watts (1941-1994). *American Journal of Physical Anthropology* 99:221-222.

RL Anemone, MP Mooney, MI Siegel (1996) A longitudinal study of the development of the molar teeth in chimpanzees and humans with implications for understanding life history among fossil hominids. *American Journal of Physical Anthropology* 99:119-133.

LA Winkler, **RL Anemone** (1996) Recent developments in hominoid ontogeny: An overview and summation. *American Journal of Physical Anthropology* 99:1-8.

RL Anemone (1995) Dental development in chimpanzees (*Pan troglodytes*) of known chronological age: Implications for understanding the age at death of Plio-Pleistocene hominids. IN: *Aspects of Dental Biology: Paleontology, Anthropology and Evolution*: J Moggi-Cecchi (ed.). Florence, International Institute for the Study of Man, pp. 201-215.

RL Anemone (1993) Functional anatomy of the hip and thigh among primates. IN: *Postcranial Adaptation in Nonhuman Primates*. DL Gebo (ed.). Dekalb, Northern Illinois University Press, pp. 150-174.

RL Anemone, ES Watts (1992) Dental development in apes and humans: A comment on Simpson, Lovejoy, and Meindl (1990). *Journal of Human Evolution* 22:149-153.

RL Anemone (1991) Can we determine age at death of Plio-Pleistocene fossil hominids? *Human Mosaic* 25:10-24.

RL Anemone, ES Watts, DR Swindler (1991) Dental development of known-age chimpanzees, *Pan troglodytes* (Primates, Pongidae). *American Journal of Physical Anthropology* 86:229-241.

RL Anemone (1990b) Can we determine the age at death of Plio-Pleistocene fossil hominids? *Bulletin of the Rochester Academy of Science* 44:1-2.

RL Anemone (1990a) The VCL hypothesis revisited: Patterns of femoral morphology among quadrupedal and saltatorial prosimian primates. *American Journal of Physical Anthropology* 83:373-393.

Published Abstracts (N = 81)

RL Anemone, CW Emerson, GC Conroy, B Nachman (2014) Geospatial paleontology: Enriching paleontological fieldwork with new approaches from the spatial sciences. Accepted for presentation at the annual meetings of the Society for Vertebrate Paleontology, Berlin, Germany. November 2014.

CW Emerson, **RL Anemone** (2014) A multi-scale geospatial model for identifying productive fossil localities in the Great Divide Basin, Wyoming. Accepted for presentation at the annual meetings of the Society for Vertebrate Paleontology, Berlin, Germany. November 2014.

RL Anemone, CW Emerson, B Nachman (2014) Testing predictive models for paleontological site location in the Eocene of Wyoming. Accepted for presentation at the 5th International Conference on Remote Sensing in Archaeology: The Age of Sensing.

RL Anemone, CW Emerson, B Nachman (2014) Predictive models for locating fossil primates based on geospatial methods. Presented at the Annual Meetings of the International Primatological Society, Hanoi, Vietnam. August 2014.

CW Emerson, **RL Anemone** (2014) Applying geospatial analytical techniques to paleontological field studies. Presented at the Annual Meeting, Association of American Geographers, Tampa, FL, April, 2014.

RL Anemone, CW Emerson, BA Nachman, B Bommersbach (2014) Testing a predictive model for identifying fossil vertebrate localities in the Eocene of Wyoming. *Am J Phys Anthropol* Supplement 58: 67.

RL Anemone (2014) Developing and testing new geospatial predictive models in paleoanthropology. Presented at the Osteology in the Carolinas Interest Group meeting, Chapel Hill, NC. Feb. 8, 2014.

RL Anemone, CW Emerson, BA Nachman (2013) Does predictive modeling work in the search for vertebrate fossils? A case study from the Eocene of Wyoming. *Journal of Vertebrate Paleontology, Programs and Abstracts*, 2013, p. 79.

B Bommersbach, **RL Anemone**, CW Emerson (2013) Predictive modeling in the search for vertebrate fossils: Geographic Object Based Image Analysis (GEOBIA) in the Eocene of Wyoming. *Journal of Vertebrate Paleontology, Programs and Abstracts*, 2013, p. 90.

B Bommersbach, **RL Anemone**, CW Emerson (2013) Predictive modeling in the search for vertebrate fossils: Geographic Object Based Image Analysis (GEOBIA) in the Eocene of Wyoming. Presented at the East Lakes Division, Association of American Geographers, Toledo, OH. Oct. 26, 2013.

RL Anemone, CW Emerson, BA Nachman (2013) Ground-truthing a predictive model for locating fossil vertebrate localities in the Eocene of Wyoming. Presented at the 62nd annual meeting of the Rocky Mountain Section of the American Association of Petroleum Geologists. Salt Lake City, UT, Sept. 2013.

Nachman, BA, **RL Anemone**, KC Beard, R Watkins (2013) A diverse primate fauna from the early Eocene of southwestern Wyoming. *Am J Phys Anthropol* Supplement 56: 204.

GC Conroy, CW Emerson, **RL Anemone**, KEB Townsend (2013) Let your fingers do the walking: A simple spectral signature model for “remote” fossil prospecting. *Am J Phys Anthropol* Supplement 56: 101.

RL Anemone, CW Emerson, B Nachman, GC Conroy R Watkins (2013) Ground-truthing a neural network based predictive model for locating productive fossil localities in the Eocene of Wyoming. *American Am J Phys Anthropol* Supplement 56: 68.

RL Anemone, M Skinner, W Dirks (2012) Hypocones and pseudohypocones in Eocene primates: A microCT scanning approach to an old problem. *Am J Phys Anthropol* Supplement 54: 84-85.

RL Anemone, CW Emerson, GC Conroy (2011) Finding fossils in new ways: A neural network model for predicting the location of fossil-bearing deposits. Presented at the Annual Meetings of the Society for Vertebrate Paleontology, Nov. 2-5, 2011, Las Vegas, NV. **FEATURED ABSTRACT**

KC Beard, M Dawson, **RL Anemone** (2011) Paleobiological implications of the early Eocene rodent *Tuscahomys* based on an extraordinary new faunal assemblage from the Great Divide Basin, Wyoming, USA. Presented at the Annual Meetings of the Society for Vertebrate Paleontology, Nov. 2-5, 2011, Las Vegas, NV.

RL Anemone, BA Nachman (2011) Metric and morphological analysis of *Cantius* molars from the Great Divide Basin, Eocene of Southwestern Wyoming. Presented at the International Symposium on Dental Morphology, Newcastle-on-Tyne, England, August 24-27, 2011.

RL Anemone, G Conroy, C Emerson, R Watkins (2011) Developing a GIS-based predictive model for the identification of fossil bearing deposits in the Eocene of Wyoming. *Am J Phys Anthropol* Supplement 52: 77.

W Dirks, **RL Anemone**, KC Beard, BA Nachman, P Tafforeau (2011) Enamel microstructure and molar development in *Leptadapis magnus*. *Am J Phys Anthropol* Supplement 52: 127.

CW Emerson, **RL Anemone** (2011) A predictive model for locating Eocene mammalian fossils in the Great Divide Basin, Wyoming. Presented at the Annual meeting of the Association of American Geographers, Seattle, WA, April 15, 2011.

W Dirks, **RL Anemone**, KC Beard, BA Nachman, P Tafforeau (2010) Dental emergence sequences in the Euarchonta and a potential synapomorphy of Euprimates. *Journal of Vertebrate Paleontology* 30, Supplement to no. 3: 82A.

RL Anemone, R Watkins, B Nachman, W Dirks (2010) An early Wasatchian mammalian fauna from an extraordinarily rich new locality in the Great Divide Basin, SW Wyoming. *Journal of Vertebrate Paleontology* 30, Suppl. 3: 54A.

B Nachman, KC Beard **RL Anemone** (2010) New Primates (Omomyidae) from the Great Divide Basin, Wyoming. *Journal of Vertebrate Paleontology* 30, Suppl. 3: 138A.

J Billian, **RL Anemone** (2010) Modeling the mandibular morphology and masticatory mechanics of Eocene mammals: A 3D laser scanning approach. *Journal of Vertebrate Paleontology* 30, Suppl. 3: 60A.

RL Anemone, R Watkins, B Nachman, W Moore, W Dirks, T Held and V Kersbergen (2010) Early Eocene mammalian fossils from an extraordinarily rich new locality in the Great Divide Basin, SW Wyoming. *Am J Phys Anthropol* Suppl. 50: 56.

W Dirks, **RL Anemone**, KC Beard, P Tafforeau (2010) The sequence of dental emergence in the Malayan colugo (*Galeopterus variegatus*) and its bearing on a potential synapomorphy of Euprimates. *Am J Phys Anthropol* Suppl. 50: 95.

W Dirks, P Holroyd, **RL Anemone** (2009) Molar formation, life history and phylogeny in three archaic ungulates, *Meniscotherium*, *Ectocion* and *Phenacodus* (Mammalia, "Condylarthra"). *Journal of Vertebrate Paleontology* 29, Suppl. 3: 88A

RL Anemone, W Dirks, B Nachman, W Moore, J Van Regenmorter (2009) Primate paleontology across the Paleocene-Eocene boundary in the Great Divide Basin, Wyoming. *Am J Phys Anthropol* Suppl. 48: 108.

GC Conroy, **RL Anemone**, J Van Regenmorter, A Addison (2009) A new and simple method for sharing paleoanthropological data using Google Earth and GIS. *Am J Phys Anthropol* Suppl. 48: 157.

RL Anemone, W Dirks, R Watkins, B Nachman, J Van Regenmorter (2008) Geology and vertebrate paleontology of Paleocene and Eocene deposits in the Great Divide Basin of southwestern Wyoming. *Journal of Vertebrate Paleontology*, 28, Suppl. 3: 45A.

J Van Regenmorter, **RL Anemone** (2008) Biostratigraphy of the Freighter Gap and Pinnacles areas, Great Divide Basin, southwestern Wyoming. *Journal of Vertebrate Paleontology* 28, Suppl. 3: 156A.

GC Conroy, **RL Anemone**, J Van Regenmorter, A Addison (2008) Google Earth, GIS, and the Great Divide. *Journal of Vertebrate Paleontology* 28, Suppl. 3: 66A.

W Dirks, **RL Anemone**, PA Holroyd, DJ Reid, P Walton (2008) Phylogeny, life history and the timing of crown formation in two archaic ungulates, *Meniscotherium* and *Phenacodus* (Mammalia, "Condylarthra"). 14th International Symposium on Dental Morphology, Greifswald, Germany. August 27-30, 2008.

RL Anemone, W Dirks, W Moore, J Van Regenmorter, J Marshall, I Felder, E DeMeester (2008) GIS and primate biostratigraphy in the early Eocene of southwestern Wyoming. *Am J Phys Anthropol* Suppl. 46: 60.

RL Anemone, W Dirks, R Watkins, B Nachman, J Van Regenmorter (2007) A late Wasatchian mammalian fauna from the Steamboat Mountain-Freighter Gap area, Great Divide Basin, Southwestern Wyoming. *Journal of Vertebrate Paleontology* 27, Suppl. 3: 40A.

Van Regenmorter, J, **RL Anemone** (2007) Creating a searchable geographic information systems (GIS) database of fossil localities and specimens: An example from the Eocene of Southwestern Wyoming. *Journal of Vertebrate Paleontology* 27, Suppl. 3: 161A

RL Anemone, W Dirks, W Moore, J Van Regenmorter (2007) Primate fossils, geological marker beds, and anachronistic faunal assemblages from the early Paleogene of southwestern Wyoming. *Am J Phys Anthropol* Suppl. 44: 64-65.

RL Anemone, R Watkins, W Moore, and L Stroik (2006) Mammals and marker beds in the Wasatch and Green River Formations: Eocene biostratigraphy near Freighter Gap, Great Divide Basin, southwestern Wyoming. *Journal of Vertebrate Paleontology* 26, Suppl. 3: 37A.

RL Anemone, W Dirks, KC Beard (2006) An anachronistic mammalian fauna from the late Paleocene of southwestern Wyoming. Presented at the Climate and Biota of the Early Paleogene conference, Bilbao, Spain, June 12-20, 2006.

RL Anemone, A Grossman, E Miller, R Watkins (2005) Biochronology and paleoecology of the Buluk fauna, early Miocene of northern Kenya. *Journal of Vertebrate Paleontology* 25, Suppl. 3: 32A.

ER Miller, **RL Anemone**, A Grossman, R Watkins, M Kyeva, R Moru (2005) A new hominoid partial maxilla from Buluk, early Miocene, Kenya. *Am J Phys Anthropol* Suppl. 40: 152-153.

W Dirks, FV Ramirez-Rozzi, DJ Reid, **RL Anemone** (2004) Thinking small: A comparative study of dental microstructure in *Cantius*, *Otolemur*, *Perodicticus*, and *Saimiri*. *Am J Phys Anthropol* Suppl. 38: 88.

RL Anemone (2002) Paleocene and Eocene mammal bearing deposits from the Great Divide Basin, Southwestern Wyoming. Presented at the Annual Meeting of the Paleontological Association, University of Cambridge, UK. December 15-18, 2002.

RL Anemone (2002) Paleocene and Eocene primate-bearing faunas from the Great Divide Basin of southwestern Wyoming. *Am J Phys Anthropol* Suppl. 34:37.

RL Anemone (2001) New Paleogene faunas from the Great Divide Basin of southwestern Wyoming. Presented at the conference "Climate and Biota of the Early Paleogene", Powell, WY, July 3-8, 2001.

RL Anemone, DJ Over, B Nachman, J Harris (2000) A new late Wasatchian mammalian fauna from the Great Divide Basin, Sweetwater County, Wyoming. *Journal of Vertebrate Paleontology* 17, Suppl. 3: 26A.

RL Anemone, EM Johnson, BA Nachman, DJ Over (2000) A new Clarkforkian primate fauna from the Great Divide Basin, SW Wyoming. *American Journal of Physical Anthropology* Suppl. 30:97.

EM Johnson, **RL Anemone** (2000) Paleoenvironmental analysis of an early Eocene locality in southwestern Wyoming. *Am J Phys Anthropol* Suppl. 30:189.

RL Anemone, EM Johnson, CM Rubick (1999) Primates and other mammals from the Great Divide Basin,

SW Wyoming: systematics, geology, and chronology. *Am J Phys Anthropol* Suppl. 28:84.

RL Anemone, B Nachman (1999) Extraordinary assemblage of *Omomys* fossils from the Bridger C, Uinta Co., WY: Hindlimb morphology and positional behavior. Abstracts with Programs, North-Central Sectional Meetings of the Geological Society of America, 31:A2.

RL Anemone, HH Covert, B Nachman (1997) Functional anatomy and positional behavior of *Omomys carteri*. *Journal of Vertebrate Paleontology* 17, Suppl. 3: 29A.

RL Anemone (1997) Dental development, life history, and hominid evolution. Presented at Cold Spring Harbor Laboratory Symposium on Human Evolution, Cold Spring Harbor, NY, October 4-8, 1997.

RL Anemone, B Nachman, DA Cope (1997) Paleocene and Eocene primates and other fossil mammals from the Great Divide Basin, SW Wyoming. *Am J Phys Anthropol* Suppl. 24:66-67.

S Krysko, **RL Anemone** (1997) Habitat structure and utilization in two New World monkeys, *Cebus capucinus* and *Alouatta palliata*. Presented at the 37th Annual Meetings of the Northeastern Anthropology Association, Montebello, Quebec, April 11-13, 1997.

B Nachman, **RL Anemone** (1997) Anthropological and paleontological investigations across the Paleocene-Eocene boundary of southwestern Wyoming. Presented at the 37th Annual Meetings of the Northeastern Anthropology Meetings, Montebello, Quebec, April 11-13, 1997.

B Nachman, T Iovine, T Smith, **RL Anemone** (1997) A view from the field and the lab: Approaches to primate paleontology in southwestern Wyoming. Presented at the 37th Annual Meetings of Northeastern Anthropology Association, Montebello, Quebec, April 11-13.

RL Anemone, DJ Over, DA Cope (1996) Paleocene & Eocene mammals from the Great Divide Basin, SW Wyoming. *Journal of Vertebrate Paleontology* 16, Suppl. 3: 20A.

RL Anemone, DJ Over, DA Cope (1996) Geology and vertebrate paleontology across the Paleocene-Eocene boundary in the Great Divide Basin, southwestern Wyoming. *Am J Phys Anthropol* Suppl. 22:61.

RL Anemone, DJ Over, DA Cope (1995) The Red Desert Basin Project: Interdisciplinary investigations of a Tertiary basin in SW Wyoming. Presented at the 35th Annual Meetings of the Northeastern Anthropological Association, Lake Placid, NY, April 2-5, 1995.

RL Anemone, HH Covert (1995) The hip of *Omomys carteri*, a North American omomyine primate from the middle Eocene. *American Journal of Physical Anthropology* Suppl. 20:58.

LJ Davignon, DJ Over, **RL Anemone** (1995) Geology and depositional environments of the Red Desert Basin. Presented at the 35th Annual Meetings of the Northeastern Anthropological Association, Lake Placid, NY, April 2-5, 1995.

D Bowen, **RL Anemone** (1995) Biostratigraphy and age of vertebrate-bearing deposits of the Red Desert Basin. Presented at the 35th Annual Meetings of the Northeastern Anthropological Association, Lake Placid, NY, April 2-5, 1995.

DL Koepfer, **RL Anemone** (1995) Archaic primates, euprimates, and other mammals from the Red Desert Basin. Presented at the 35th Annual Meetings of the Northeastern Anthropological Association, Lake Placid, NY, April 2-5, 1995.

LJ Davignon, DJ Over, **RL Anemone** (1995) Geological investigation of Paleocene-Eocene strata and depositional environments of the Red Desert Basin, southwestern Wyoming. Presented at the Northeastern Sectional Meetings of the Geological Society of America, Hartford, CT, March 19-21, 1995.

- RL Anemone** (1994) The Red Desert Basin Project: Vertebrate paleontology and geology of an intermontane basin in southwestern Wyoming. Presented at the 21st Annual Meeting of the Rochester Academy of Science, Rochester, NY, November 5, 1994.
- RL Anemone** (1994) Dental development and life history in chimpanzees and fossil hominids. *American Journal of Primatology* 33:193-194.
- RL Anemone** (1994) The ontogeny of sexual dimorphism in the skull of the Liberian chimpanzee. Presented at the 34th Annual Meeting, Northeastern Anthropological Association, Geneseo, NY, April 6-9, 1994.
- RL Anemone** (1994) The ontogeny of sexual dimorphism in the skull of the Liberian chimpanzee. *Am J Phys Anthropol* Supplement 18:50.
- RL Anemone** (1993) Heterochrony and sexual dimorphism in the skull of the Liberian chimpanzee. *American Journal of Primatology* 30:294.
- RL Anemone, MP Mooney, MI Siegel** (1993) A longitudinal study of molar development in chimpanzees. *Am J Phys Anthropol* Suppl. 16:49.
- RL Anemone** (1992) Dental development in chimpanzees (*Pan troglodytes*) of known chronological age: Implications for understanding the age at death of Plio-Pleistocene hominids. Presented at the 9th International Symposium on Dental Morphology, Florence, Italy, Sept. 3-6, 1992.
- RL Anemone** (1992) Morphological variation within the genus *Saguinus* and its relationship to positional behavior. *American Journal of Primatology* 27:14.
- RL Anemone** (1992) Positional behavior and skeletal morphology within the genus *Saguinus*. *Am J Phys Anthropol* Suppl. 14:43-44.
- RL Anemone, ES Watts** (1991) Molar development in known age chimpanzees: Developmental and evolutionary relationships. *Am J Phys Anthropol* Suppl. 12:43-44.
- RL Anemone** (1990) Can We Determine the Age at Death of Plio-Pleistocene Fossil Hominids? Presented at the 17th Annual Meeting of the Rochester Academy of Science, Rochester, NY, November 3, 1990.
- RL Anemone** (1990) Dental development of known-age chimpanzees (*Pan troglodytes*) and implications for human evolution. Presented at the 30th Annual Meeting of the Northeastern Anthropological Association, Burlington, Vermont, March 29-April 1, 1990.
- RL Anemone** (1990) Functional morphology of the hindlimb skeleton among leaping prosimians. *Am J Phys Anthropol* 81:188-189.
- RL Anemone** (1989) Patterns of pelvic morphology among saltatorial and quadrupedal prosimians. *Am J Phys Anthropol* 78:184.
- RL Anemone** (1983) The femur among prosimian primates. *Am J Phys Anthropol* 60:170.
- RL Anemone** (1982) Functional analysis of the galago tarsus. *Am J Phys Anthropol* 57:167.

Invited Presentations (N = 27)

- 2013 Developing and Ground-Truthing Predictive Models for Locating Fossil Vertebrate Sites in the Eocene of Wyoming. Department of Geography, Univ. of North Carolina Greensboro, Nov. 22.
- 2012 Finding Fossils in New Ways: An Artificial Intelligence Approach to Locating Productive Fossil Localities. Department of Human Evolutionary Biology, Harvard University, April 27.
- 2012 Finding Fossils in New Ways: Developing and Testing New Geospatial Approaches in Paleoanthropology. Dept. of Mathematics & Computer Science, Denison University. April 17.
- 2012 Using Satellite Imagery to Find Fossils: An Example from the Great Divide Basin of Wyoming. Lyceum Lecture Series, Lee Honors College, Western Michigan University, January 25.
- 2009 “Light will be thrown on the origin of man and his history”: The status of human evolutionary studies 150 years after *The Origin*. The Center for the Study of Ethics in Society, Western Michigan University, November 12.
- 2008 GIS, Google Earth, and the Search for Fossil Primates in the Eocene of Wyoming. Department of Biomedical Sciences, Grand Valley State University, Allendale, MI. November 14.
- 2008 New Techniques and Approaches from the Geographic Sciences in the Search for Primate Fossils. Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany. August 25.
- 2008 Climate change and the evolution of early mammals: Vertebrate paleontology in the Great Divide Basin. Department of Geography, Western Michigan University, February 15.
- 2003 New primate fossils from the late Paleocene and early Eocene of the Great Divide Basin, southwestern Wyoming. Department of Anthropology, Washington University, March 20.
- 2002 Dental development and life history in human evolution. Department of Biological Sciences, Western Michigan University, October 18.
- 2001 Vertebrate Paleontology across the Paleocene-Eocene Boundary: Recent Investigations in the Great Divide Basin, SW Wyoming. Department of Anthropology, University of Wisconsin, November 16.
- 2001 Climate change and mammalian evolution in the early Tertiary: Recent field investigations in the Great Divide Basin, SW Wyoming. Department of Geosciences, Western Michigan University, October 29.
- 1999 Positional behavior and hindlimb morphology of middle Eocene *Omomys carteri* (Primates, Omomyidae). Department of Anthropology, Northern Illinois University, October 29.
- 1999 New skeletal remains of *Omomys carteri*: Functional morphology and locomotor behavior of a middle Eocene primate. New York Regional Primatology Group, New York University, Oct. 14.
- 1999 Teeth, Development, and Human Evolution. Department of Orthodontics, Eastman Dental Center, University of Rochester, April 16.
- 1997 Phylogenetic origins of craniofacial form. Department of Orthodontics, Eastman Dental Center, University of Rochester, May 18.
- 1997 Chimpanzees as models for human behavior and evolution. Keynote lecture at Tri-Beta Regional Convention, Geneseo, NY, March 15.

- 1996 Longitudinal studies of chimpanzee dental development. Colloquium on Enamel Structure and Development & its Application to Hominid Evolution & Taxonomy, Paris, France, May 20-24.
- 1996 Biostratigraphy and fossil mammals from southwestern Wyoming. Department of Biology, College of Charleston, April 9.
- 1996 Dental development, life history and fossil hominids. Department of Anthropology, University of Toronto, March 8.
- 1995 Cranio-dental form and function in human evolution. Department of Orthodontics, Eastman Dental Center, University of Rochester, May 5.
- 1995 Dental development in chimps, humans and early hominids. Department of Anatomical Sciences, SUNY at Stony Brook, February 10.
- 1994 Dental development, life history, and fossil hominids. Department of Anthropology, Western Michigan University, October 10.
- 1992 Dental development among chimps and humans: Implications for determining age at death among Australopithecines. Department of Anthropology, SUNY at Buffalo, October 22.
- 1991 Can we determine the age at death of Plio-Pleistocene fossil hominids? Department of Anthropology, Tulane University, October 25.
- 1991 The VCL hypothesis revisited: Evidence from the lower limb. New York Regional Primatology Group, CUNY Graduate Center, February 14.
- 1989 Leaping locomotion and the functional anatomy of the hindlimb among prosimian primates. Department of Anthropology, Tulane University, March 15.

Book Reviews (N = 11)

- 2011 *A Companion to Biological Anthropology*. CS Larsen, ed. 2010. Wiley-Blackwell. American Journal of Physical Anthropology, 145:672.
- 2010 *Mammalian Evolutionary Morphology. A Tribute to Frederick S. Szalay*. EJ Sargis and M Dagosto, Eds. 2008. Springer. Journal of Mammalian Evolution, 17: 61-63.
- 2009 *Dental Perspectives on Human Evolution*. SE Bailey and JJ Hublin, eds., 2007. Springer. American Journal of Physical Anthropology, 138: 517-518.
- 2004 *Patterns of Growth and Development in the Genus Homo*. JL Thompson, GE Krovitz, & AJ Nelson, Eds. 2003. Cambridge University Press. Journal of Human Evolution, 46:785-787.
- 2003 *Reconstructing Behavior in the Primate Fossil Record*. JM Plavcan, RF Kay, WL Jungers, & CP van Schaik, Eds. 2002. Kluwer Academic / Plenum Publishing. American Journal of Physical Anthropology, 120:305-306.
- 2001 *Primate Communities*. J Fleagle, C Janson, & K Reed, Eds. 1999, Cambridge University Press. American Journal of Physical Anthropology, 116:254-255.
- 2001 *Primate Ecology and Social Structure (2 vols.)*. R.W. Sussman, ed. 1999-2000, Pearson Custom Publishing. American Journal of Physical Anthropology, 115:194-195.
- 2000 *Primate Locomotion: Recent Advances*. E Strasser, J Fleagle, A Rosenberger, & H McHenry, Eds. 1998, Plenum Press. American Anthropologist, 102:373-374.

- 1999 *Introduction to the Primates*. DR Swindler. 1998, University of Washington Press. American Journal of Physical Anthropology, 110:476-478.
- 1993 *The Cambridge Encyclopedia of Human Evolution*. S Jones, R Martin, D Pilbeam, Eds. 1992, Cambridge University Press. American Journal of Physical Anthropology, 91:395-397.
- 1983 *An Atlas and Source Book of the Lesser Bushbaby, Galago senegalensis*. JL Stevens, VR Edgerton, DE Haines, DM Meyer. 1981, CRC Press. Amer. Journal of Primatology, 4:193-194.

Grants, Awards, and Fellowships

- 2014 School of Advanced Research, Santa Fe, NM. Advanced Seminar on *New Geospatial Approaches in Anthropology*. Organizer and Co-Chair. (Full Funding)
- 2012-14 National Science Foundation, NSF-BCS – 1227329. *Developing and Testing New Geospatial Approaches in Paleoanthropology* (\$180,459) PI
- 2012 WMU Arts and Sciences Teaching and Research Award (\$1000)
- 2012 WMU Support for Faculty Scholar Award (\$2000)
- 2011 WMU College of Arts and Sciences Faculty Achievement Award for Research Activity.
- 2011 Instructional Development Grant, Western Michigan University (\$6000)
- 2008 LSB Leakey Foundation Grant (\$25,000, not funded)
- 2006, 2010 Faculty Research and Creative Activities Support Fund, WMU (\$10,000, \$10,000)
- 2006 Wenner-Gren Foundation for Anthropological Research (\$25,000, not funded)
- 2006 Advanced Research Development Award, WMU.
- 2006 National Science Foundation (\$450,000 not funded) Co-PI.
- 2005 National Science Foundation (\$500,000 not funded) Co-PI.
- 2000 Teaching and Learning with Technology Award (\$10,000)
- 2000, 2003 Faculty Research and Creative Activities Support Fund, WMU (\$5000, \$5000)
- 2000, 2001 College of Arts and Sciences Teaching and Research Award, WMU (\$1000, \$600)
- 1999 Research Development Award, WMU (\$3500)
- 1996 Wenner-Gren Foundation for Anthropological Research (\$9000)
- 1994 SUNY Geneseo, College Planning Council (\$5000)
- 1993 Rockefeller Center for the Social Sciences at Dartmouth College Summer Seminar
- 1990 SUNY Presidential Summer Fellowship (\$3000)
- 1990,94-95 New Faculty Development Award, United University Professions
- 1983 University of Washington Graduate School Dissertation Fellowship
- 1982 Curatorial Research Internship in Mammalogy, American Museum of Natural History
- 1981 Sigma Xi, The Scientific Research Society, Grant-in-Aid of Research

Field Experience in Vertebrate Paleontology

- 2012-13 Great Divide Basin, Wyoming. L. Paleocene – E. Eocene. Project Director: RL Anemone (Funded by NSF BCS 1227329, RL Anemone PI)
- 2011 Hoogland Area Research Program, Cradle of Humankind, South Africa. Project Director: JW Adams, Grand Valley State University. (Funded by NSF BCS 0962564, JW Adams, PI)
- 2005-2010 Great Divide Basin, Wyoming. L. Paleocene – E. Eocene. Project Director: RL Anemone
- 2004 Buluk, Kenya. Early Miocene. Project Director: Ellen Miller, Wake Forest University
- 1994-2003 Great Divide Basin, Wyoming. L. Paleocene – E. Eocene. Project Director: RL Anemone
- 1989-92 Washakie Basin, Wyoming. Early Eocene. Project Director: HH Covert, Univ. of Colorado.
- 1983 Hell Creek and Tullock Formations, Montana. Late Cretaceous and Early Tertiary. Project Director: WA Clemens, University of California, Berkeley.
- 1981 John Day Formation, Oregon. Oligocene. Project Director: JA Rensberger, University of Washington.

Professional Activities

- 2014-17 Associate Editor, Journal of Human Evolution
2014 Scientific Committee, International Primatological Society Congress, Hanoi, Vietnam
2011 NSF Senior Panel, Division of Behavioral and Cognitive Sciences.
2012-15 Abstracts Volume Editor, Society for Vertebrate Paleontology
2011-12 Business Officer for Publications Committee, Society for Vertebrate Paleontology
2006-08 Annual Meeting Program Committee, American Association of Physical Anthropologists
2000-03 Associate Editor, Journal of Human Evolution
2000 NSF Chautauqua Program, GIS and the Urban Environment, University of Pittsburgh.
1998 NSF Chautauqua Program, Primate and Human Evolution, SUNY at Stony Brook.
1995-03 Coordinating Editor, Northeastern USA, Society of Vertebrate Paleontology Newsletter.
1996-98 Contributing Editor for Physical Anthropology, Northeastern Anthropological Association.
1995 Organizer and Chair of Invited Session: The Red Desert Basin Project: Geological and Paleontological Investigations of early Eocene Sediments in southwestern Wyoming. Presented at the 35th Annual Meetings of the Northeastern Anthropological Association, Lake Placid, NY, April 2-5.
1993 Co-organizer and Co-chair of Invited Session: *Recent Developments in the Study of Hominoid Ontogeny*. Presented at the 62nd Annual Meeting of American Association of Physical Anthropologists, Toronto, Ontario, April 14-17.
1991 Co-organizer and Co-chair (with Joyce E. Sirianni, SUNY at Buffalo) of Invited Session: Symposium in Honor of Daris R. Swindler's Contributions to Craniofacial Growth and Development in Nonhuman Primates. Presented at the 60th Annual Meeting of the American Association of Physical Anthropologists, Milwaukee, Wisconsin, April 3-6.

Reviewer

Reviewer of journal manuscripts, book length manuscripts, book chapters, and grant proposals for a wide variety of scientific publications (e.g., Nature, PLOS One, Amer. J. Phys. Anthropol., J. Hum. Evol, Annals of Human Biology), publishers (e.g., Univ. of Washington Press, Blackwell Publishing, Academic Press), & granting agencies (e.g., NSF, Wenner-Gren, Leakey Foundation).

Foreign Languages

Reading and speaking knowledge: German and Italian.

Memberships in Professional Societies

American Association of Physical Anthropologists
Society for Vertebrate Paleontology
American Association for the Advancement of Science
Paleoanthropology Association