

Mark N. Coleman Ph.D., M.A., B.M.

Vita

EDUCATION:

Ph.D., Stony Brook University, May 2007, Anthropological Sciences

M.A., Stony Brook University, December 2003, Anthropological Sciences

B.M., University of Tennessee, May 1999, Double Major in Jazz Performance and
Anthropology

Title of Dissertation: Functional Morphology and Evolution of the Primate Auditory
System

EMPLOYMENT HISTORY AND RESPONSIBILITIES:

Lincoln Memorial University, Harrogate, TN., Associate Professor 2019-present,
Teaching, Service, Course Directorship

Ross University, Knoxville, TN., Bridgetown, Barbados, Visiting Professor 2018-2019,
Teaching, Module Leader

Ross University, Knoxville, TN., Lab Demonstrator 2018, Teaching

Pellissippi State Community College., Knoxville, TN., Adjunct Professor 2016-2018,
Teaching

Midwestern University, Glendale, AZ., Associate Professor with Tenure 2012-2015,
Teaching, Service, Course Directorship

Midwestern University, Glendale, AZ., Assistant Professor 2008-2012, Teaching,
Service, Course Directorship

Stony Brook University, Stony Brook, NY., Visiting Assistant Professor 2007-2008,
Teaching

Stony Brook University, Stony Brook, NY., Adjunct Professor 2005-2007, Teaching

Hofstra University, Hofstra, NY., Adjunct Professor 2003-2007, Teaching

PROFESSIONAL and SCHOLARLY ORGANIZATIONS:

American Association of Anatomists (2019-present)

American Association of Physical Anthropologists (2000-2015)

Acoustical Society of America (2002-2008)

Society of Vertebrate Paleontology (2008-2009)

HONORS and AWARDS:

Nominee, President's Award for Excellence in Teaching by a Graduate Student, 2005

Honors in Anthropology, University of Tennessee, 1999

Outstanding Senior in Anthropology, University of Tennessee, 1999

Cum Laude, University of Tennessee, 1999

Bill Harmes' Scholarship, Department of Music, University of Tennessee, 1996-1998

John Spear Paper Competition Co-Winner, University of Tennessee, 1999

GRANTS and CONTRACTS:

Doctoral Dissertation Improvement Grant, National Science Foundation, 2004-2007

Visiting Scholar Grant, Field Museum of Natural History, 2004

Conference Grant, Acoustical Society of America, 2003

Research Grant, Stony Brook University, 2002

Conference Grants, Stony Brook University, 2001-2007

PUBLICATIONS:

Peer-reviewed publications

- 2014 Quam, RM, **Coleman MN**, Martinez I. Evolution of the auditory ossicles in extant hominids: Metric variation in African Apes and humans. *Journal of Anatomy* 225(2):167-196.
- 2012 **Coleman MN**, Boyer DM. Inner ear evolution in Primates through the Cenozoic. Implications for the evolution of hearing. *The Anatomical Record* 295(4): 615-631.
- 2012 O'Leary M, Patel B, **Coleman MN**. Endocranial petrosal anatomy of *Bothriogenys* (mammalia, artiodactyla, anthracotheriidae), and petrosal volume and density comparisons among aquatic and terrestrial artiodactylans and outgroups. *Journal of Paleontology* 86(1):44-50.
- 2011 **Coleman MN**, Boyer DM. Relationships between the expression of the stapedial artery and the size of the obturator foramen in euarchontans: Functional and phylogenetic implications. *Journal of Human Evolution* 60:106-116.
- 2010 **Coleman MN**, Kay RF, Colbert MW. Auditory morphology and hearing sensitivity in fossil New World monkeys. *Anatomical Record* 293:1711-1721.
- 2010 **Coleman MN**, Colbert MW. Correlations between auditory structures and hearing sensitivity in non-human primates. *Journal of Morphology* 271:511-532.
- 2009 **Coleman MN**. What do primates hear? A meta-analysis of all known non-human primate behavioral audiograms. *International Journal of Primatology* 30:55-91.
- 2008 **Coleman MN**. What does geometric mean, mean geometrically: Investigating the utility of geometric mean and other size variables in body size allometry." *American Journal of Physical Anthropology* 135:404-415.
- 2007 **Coleman MN**, Colbert MW. Technical Note - CT thresholding protocols for taking measurements on three-dimensional models." *American Journal of Physical Anthropology* 133:723-725.
- 2004 **Coleman MN**, Ross CF. Primate auditory diversity and its influence on hearing performance. *The Anatomical Record* 281A(1):1123-1137.

Professional Presentations

- 2011 **Coleman MN**, Boyer DM. The evolution of hearing sensitivity and vocal communication in primates. American Association of Physical Anthropologists 80th Annual Meeting, Minneapolis, Minnesota. *American Journal of Physical Anthropology* 144(S52):83. 110-111.
- 2011 Boyer DM, Silcox MT, Bloch JI, **Coleman MN**, Dobrata T. New skull and associated postcrania of *Ignacius Graybullianus* (Mammalia, ?Primates) from the Eocene of Wyoming. Society of Vertebrate Paleontology 71st Annual Meeting, Las Vegas, Nevada. *Journal of Vertebrate Paleontology Supplemental* :76.
- 2010 **Coleman MN**. Investigating the interaction between ambient acoustics and primate vocalizations in the Ecuadorian Amazon; A test of the acoustic adaptation hypothesis. Second Pan-American /Iberian Meeting on Acoustics – Acoustical Society of America 160th Meeting, Cancun Mexico. *Journal of the Acoustical Society of America* 128(4):2277.
- 2010 **Coleman MN**, Fernandez-Duque E. Orbit and skull size in cathemeral owl monkeys of the Argentinian Chaco. American Association of Physical Anthropologists 79th Annual Meeting, Albuquerque, New Mexico. *American Journal of Physical Anthropology* 141(S50):83.
- 2009 **Coleman MN**, DiFiore A, Fernandez-Duque E. A Preliminary Report on the Interaction Between Ambient Acoustics and Primate Vocalizations in the Ecuadorian Amazon. American Association of Physical Anthropologists 78th Annual Meeting, Chicago, Illinois. *American Journal of Physical Anthropology* 138(S48):108.
- 2008 **Coleman MN**, Boyer BM. A stirrup in the Paleo-Scene. A new line of evidence for investigating cerebral circulation patterns in fossils. Society of Vertebrate Paleontology 68th Annual Meeting, Cleveland, Ohio. *Journal of Vertebrate Paleontology* 28(S3):66.
- 2008 **Coleman MN**, Boyer BM. (2008). Evolution of low-frequency hearing in primates: evidence from fossils. American Association of Physical Anthropologists 77th Annual Meeting, Columbus, Ohio. *American Journal of Physical Anthropology* 135 (S46):80.
- 2007 **Coleman MN**, Kay RF, Colbert MW. (2007). Evaluating hearing sensitivity in *Homunculus patagonicus*. American Association of Physical Anthropologists 76th Annual Meeting, Philadelphia, Pennsylvania. *American Journal of Physical Anthropology* 132 (S44):89.
- 2006 **Coleman MN**. Predicting hearing sensitivity from ear morphology in Primates. American Association of Physical Anthropologists 75th Annual Meeting, Anchorage, Alaska. *American Journal of Physical Anthropology* 129 (S42):76.

- 2005 **Coleman MN.** Determining which primate audiograms are reliable for comparing sensitivity in different species. Acoustical Society of America 150th Semi-annual Meeting, Minneapolis, Minnesota. *Journal of the Acoustical Society of America* 118(3):1893.
- 2005 **Coleman MN.** Pleiotropic relationships between ossicular and mandibular robusticity. American Association of Physical Anthropologists 74th Annual Meeting, Milwaukee, Wisconsin. *American Journal of Physical Anthropology* 126 (S40):87.
- 2004 **Coleman MN.** An audiometric comparison of primate audiograms. Acoustical Society of America 149th Semi-annual Meeting, New York, New York. *Journal of the Acoustical Society of America* 115(5):2443.
- 2004 **Coleman MN.** Diversity in primate auditory structure and its influence on hearing performance. Invited speaker – American Association of Physical Anthropologists 73rd Annual Meeting, Tampa, Florida. *American Journal of Physical Anthropology* 123 (S38):77.
- 2003 **Coleman MN.** An investigation of scaling relationships in sensory and masticatory systems of New World primates. American Association of Physical Anthropologists 72nd Annual Meeting, Arizona State University, Tempe, Arizona. *American Journal of Physical Anthropology* 120 (S36):78.
- 2003 **Coleman MN.** Selective pressures on the primate auditory system. First International Conference on Acoustic Communication by Animals, University of Maryland, College Park, Maryland.
- 2002 **Coleman MN.** Behavioral comparisons of primate audiograms. American Association of Physical Anthropologists 71st Annual Meeting, Buffalo, New York. *American Journal of Physical Anthropology* 117 (S34):55-56.
- 2001 **Coleman MN.** Middle ear morphology in primates and its relationship to hearing. American Association of Physical Anthropologists 70th Annual Meeting, Kansas City, Missouri. *American Journal of Physical Anthropology* 114 (S32):52.

Other publications

- 2007 **Coleman MN.** The Functional Morphology and Evolution of the Primate Auditory System. Ph.D. Dissertation, Stony Brook University.
- 2003 **Coleman MN.** The Primate Ear. M.A. Thesis, Stony Brook University
- 1999 **Coleman MN.** A Multi-Disciplinary Synthesis of Late Pleistocene/Early Holocene Data in the Context of New World Migration Theories. Senior Honors Thesis, University of Tennessee.

COMMUNITY SERVICE:

Journal Peer-Reviewer: The Annals of Otology, Rhinology and Laryngology, The Anatomical Record, Journal of Vertebrate Paleontology, Journal of Human Evolution, Evolutionary Anthropology, Journal of Morphology, American Journal of Primatology, International Journal of Primatology, American Journal of Physical Anthropology

Grant Reviewer: The National Science Foundation

OTHER RELEVANT ITEMS:

Research Activities

- 2007 Ambient Acoustics Field Research, Tiputini Research Station, Ecuador
- 2006 Paleontological Field Assistant, Fayum Expedition, Egypt
- 2005 Primate Behavioral Research Field Assistant, Tiputini Research Station, Ecuador
- 2004 Paleontological Field Assistant, Crazy Mountains Basin Field Project, Wyoming
- 2001 Primate Behavioral Observation, Phu Khieo Wildlife Sanctuary, Thailand
- 1999 Archeological Excavator, Grotte VIX, LeConte Bluff, Perigord, France
- 1998 Ethnographer, GSMNP Cades Cove Ethnographic Project, Tennessee