

CURRICULUM VITAE OF BENJAMIN MILLER AUERBACH

Current affiliation and contact information

Associate Professor
Department of Anthropology
The University of Tennessee
1621 Cumberland Avenue, Room 505
Knoxville, Tennessee 37996 USA

E-mail: auerbach@utk.edu
Telephone: (+01) 865-974-4408 (work)
(+01) 865-974-2686 (fax)
Web page:
<http://web.utk.edu/~auerbach/index.htm>

Education

Ph.D. Functional Anatomy and Evolution

Johns Hopkins University School of Medicine, 2007 (degree conferred in 2008)
Dissertation: "Human skeletal variation in the New World during the Holocene: effects of climate and subsistence across geography and time"

Research Fellowship (Funded by the Joanna Jackson Goldman Memorial Prize)

Biological Anthropology: "The Panhuman Postcranial Project"
Miami University, 2001 – 2002

B.A. Anthropology (with a minor in Criminology)

Miami University, 2001

B.A. Comparative Religion

Miami University, 2001

Professional Experience

August – December 2017	Visiting Academic, Centre for Human Anatomy Education, Department of Anatomy and Developmental Biology, Monash University, Melbourne, Australia
April 2015 – present	Adjunct Associate Professor, Department of Ecology & Evolutionary Biology, The University of Tennessee, Knoxville, TN
July 2014 – present	Associate Professor (with tenure), Department of Anthropology The University of Tennessee, Knoxville, TN
August 2008 – June 2014	Assistant Professor, Department of Anthropology The University of Tennessee, Knoxville, TN
August 2007 – July 2008	Visiting Scholar, Center for Archaeological Investigations Southern Illinois University Carbondale, Carbondale, IL
June – August 2004	Instructor, Department of Anthropology University of Maryland, College Park, MD

Research Experience

Interests and specialties: functional trait complex evolution; population and quantitative genetics; multi-disciplinary analysis of the skeleton; ecogeographic variation in body size and proportions; marsupial (Diprodontia and Australidelphia) and primate

(Cercopithecidae) trait complex evolution; modern human morphological variation; estimation of stature and body mass in humans and human ancestors; New World population history; morphological integration; climatic and subsistence interactions and effects on the skeleton; functional anatomy of the limbs; disease and human evolution

Current projects

- Collaboration with Dr. Justin Adams, Elizabeth Agosto (ABD), Sam Williams (ABD): Functional trait complex evolution in marsupials and in primates
- Collaboration with Drs. Charles Roseman and Kristen Savell: Correspondence of human genetic and phenotypic data in population structure, history, and evolutionary models
- Collaboration with Drs. Cara Wall-Scheffler and Helen Kurki: Evolution of the human pelvis

Grants received

National Science Foundation Doctoral Dissertation Improvement Grant (NSF #1825995)

Principal investigator

Co-PI: Elizabeth Agosto (doctoral student)

“Doctoral Dissertation Research: Investigating underlying mechanisms of primate shoulder adaptations”

\$16,125 – Awarded 2018; active 2018 – 2019

University of Tennessee Professional Development Award

Principal investigator

Co-PI: Frankie West (doctoral student)

“Impact of a non-destructive DNA extraction technique on tooth microstructure”

\$2,485 – Awarded 2016; active February 2016 – June 2016

National Science Foundation Collaborative Research Grant, BCS Division (NSF #0962752)

Principal investigator

Co-PIs: Dr. Kathryn King and Dr. Adam Sylvester

“Pelvic shape and differential mortality: obstetric variation among indigenous North American populations”

\$15,186 – Awarded 2010; active July 2010 – December 2011

National Science Foundation Doctoral Dissertation Improvement Grant (NSF #0550673)

Co-PI (with Principal investigator: Dr. Christopher Ruff)

“Human skeletal variation in the prehistoric New World: geographic, temporal and climatic effects”

\$11,158 – Awarded 2006; active 2006 – 2007

National Science Foundation Graduate Research Fellowship, Biological Anthropology

Awarded 2001; active 2002 – 2005

Joanna Jackson Goldman Memorial Prize

Principal investigator

Miami University’s top academic grant, awarded to one graduating student each year to fund independent research. It was used for a research fellowship in skeletal biology.

\$23,316 – Awarded 2001; active 2001 – 2002

Grants pending

None

Grants not funded**Leakey Foundation Senior Research Grant**

Principal Investigator

Co-PIs: Dr. Justin Adams (Monash University); Dr. Natalie Warburton (Murdoch University); Dr. Gavin Prideaux (Flinders University)

“Convergence and constraint in primate and tree-kangaroo limb morphological evolution”

\$19,442 – Submitted January 2018

National Science Foundation Doctoral Dissertation Improvement Grant, BCS Division

Principal Investigator

Co-PI: Nicole M. Reeves, ABD

“Augmenting functional adaptation: Does obesity have a systemic effect on bone strength and joint morphology in humans?”

\$11,950 – Submitted August 2012

National Science Foundation Doctoral Dissertation Improvement Grant, BCS Division

Principal Investigator

Co-PI: Courtney D. Eleazer, ABD

“The interaction of mechanics and metabolism: testing bioarchaeological assumptions using human cortical bone macromorphology and histomorphology”

\$12,871 – Submitted September 2011 (rated “High Competitive” but not funded)

PublicationsPeer-reviewed books

- In press Wall-Scheffler CM, Auerbach BM & Kurki HK. *The Evolutionary Biology of the Human Pelvis: An Integrative Approach*. Cambridge University Press. (anticipated publication in 2019)
- 2014 Hilton CE, Auerbach BM & Cowgill LW (editors). *The Foragers of Point Hope: The Biology and Archaeology of Humans on the Edge of the Alaskan Arctic*. Cambridge University Press.
- 2010 Auerbach BM (editor). *Human Variation in the Americas: The Integration of Archaeology and Biological Anthropology*. Carbondale, IL: Center for Archaeological Investigations.

Peer-reviewed papers (h-index: 14, Web of Science; 15, Google Scholar)

- In prep Auerbach BM & Rose KD. Biomechanical properties of ungual phalanges and mammalian locomotor groups. *Journal of Morphology*.
- In prep Gooding AF, Sylvester AD, & Auerbach BM. Tibial cross-sectional properties, ageing and senescence in humans. *American Journal of Physical Anthropology*.

- In prep Mallard AM, Watson JM, & Auerbach BM. The congruence of archaeology and microevolutionary studies among several sites in the Southwest. *Journal of Archaeological Science*.
- In prep Agosto EA & Auerbach BM. The evolution of the basicranium and shoulder girdle in tamarins: implications for functional trait complexes. *Proceedings of the National Academy of Sciences USA*.
- In prep Auerbach BM. Technical note: The Goldman and Americas Postcranial Data Sets on the Internet. *American Journal of Physical Anthropology*.
- In revision Auerbach BM & Roseman CC. The impact of measurement error on ratios of highly correlated dimensions. *American Journal of Physical Anthropology*.
- In press Auerbach BM, King KA, Campbell ML, Campbell RM & Sylvester AD. Variation in obstetric dimensions of the human bony pelvis in relation to age-at-death and latitude. *American Journal of Physical Anthropology*.
- 2017 Auerbach BM, Gooding AF, Shaw CN & Sylvester AD. The relative position of the human fibula to the tibia influences cross-sectional properties of the tibia. *American Journal of Physical Anthropology* 163: 148-157.
- 2017 Mallard AM, Savell KRR & Auerbach BM. Morphological integration of the human pelvis with respect to age and sex. Invited paper. *Anatomical Record* 300:666-674.
- 2016 Savell KRR, Auerbach BM & Roseman CC. Constraint, natural selection, and the evolution of human body form. *Proceedings of the National Academy of Sciences USA* 113(34):9498-9503.
- 2016 Reeves NM, Auerbach BM & Sylvester AD. Fluctuating and directional asymmetry in the long bones of captive cotton-top tamarins (*Saguinus oedipus*). *American Journal of Physical Anthropology* 160:41-51.
- 2015 Roseman CC & Auerbach BM. Ecogeography, genetics, and the evolution of human body form. *Journal of Human Evolution* 78:80-90.
- 2014 Trinkaus E, Holliday TW & Auerbach BM. Neandertal clavicle length. *Proceedings of the National Academy of Sciences USA* 111:4438-4442.
- 2014 Auerbach BM. Morphologies from the edge: perspectives on biological variation among the late Holocene inhabitants of the northwestern North American Arctic. In Hilton CE, Auerbach BM & Cowgill LW (editors): *The Foragers of Point Hope: The Biology and Archaeology of Humans on the Edge of the Alaskan Arctic*. Cambridge University Press, pp. 235-265.
- 2014 Hilton CE, Auerbach BM & Cowgill LW. Introduction: Humans on the edge of the Alaskan Arctic. In Hilton CE, Auerbach BM & Cowgill LW (editors): *The Foragers of Point Hope: The Biology and Archaeology of Humans on the Edge of the Alaskan Arctic*. Cambridge University Press, pp. 1-10.
- 2014 Auerbach BM. Body mass, stature, and proportions. In Owsley DW & Jantz RL (editors): *Kennewick Man: The Scientific Investigation of an Ancient American Skeleton*. College Station, TX: Texas A&M Press, pp. 212-231.
- 2012 Auerbach BM. Skeletal variation among early Holocene North American humans: implications for origins and diversity in the Americas. *American Journal of Physical Anthropology* 149:525-536.

- 2012 Fatah EEA, Shirley NR, Mahfouz MR & Auerbach BM. A three-dimensional analysis of bilateral directional asymmetry in the human clavicle. *American Journal of Physical Anthropology* 149:547-559.
- 2012 Ruff CB, Raxter MH & Auerbach BM. Comment on Bidmos and Manger, "New soft tissue correction factors for stature estimation: Results from magnetic resonance imaging" (For. Sci. Intl. 214 (2012) 212 e1-7). *Forensic Science International* 214:e1-7.
- 2012 Cowgill LW, Eleazer CD, Auerbach BM, Temple DH & Okazaki K. Developmental variation in ecogeographic body proportions. *American Journal of Physical Anthropology* 148:557-570.
- 2011 Auerbach BM. Methods for estimating missing human skeletal osteometric dimensions employed in the revised Fully technique for estimating stature. *American Journal of Physical Anthropology* 145:67-80.
- 2011 Auerbach BM & Sylvester AD. Allometry and apparent paradoxes in human limb proportions: implications for scaling factors. *American Journal of Physical Anthropology* 144:382-391.
- 2011 Auerbach BM. Reaching great heights: changes in indigenous stature and limb use with agricultural intensification in North America. In Pinhasi R & Stock JT (editors): *Human Bioarchaeology of the Transition to Agriculture*. London: Wiley-Liss, pp. 203-233.
- 2010 Auerbach BM. Giants among us? Morphological variation and migration on the Great Plains. In Auerbach BM (editor): *Human Variation in the Americas: The Integration of Archaeology and Biological Anthropology*. Carbondale, IL: Center for Archaeological Investigations, pp. 172-214.
- 2010 Auerbach BM. Finding common ground in the archaeology and biology of the Americas' past. In Auerbach BM (editor): *Human Variation in the Americas: The Integration of Archaeology and Biological Anthropology*. Carbondale, IL: Center for Archaeological Investigations, pp. 1-11.
- 2010 Auerbach BM & Ruff CB. Stature estimation formulae for indigenous North American populations. *American Journal of Physical Anthropology* 141:190-207.
- 2008 Temple DH, Auerbach BM, Nakatsukasa M, Sciulli PW & Larsen CS. Variation in body proportions between Jomon foragers and Yayoi agriculturalists from prehistoric Japan. *American Journal of Physical Anthropology* 137:164-174.
- 2008 Auerbach BM & Raxter MH. Patterns of clavicular bilateral asymmetry in relation to the humerus: variation among humans. *Journal of Human Evolution* 54:663-674.
- 2007 Raxter MH, Ruff CB & Auerbach BM. Technical note: Use of revised Fully stature estimation technique. *American Journal of Physical Anthropology* 133:817-818.
- 2006 Auerbach BM & Ruff CB. Limb bone bilateral asymmetry: variability and commonality among modern humans. *Journal of Human Evolution* 50:203-218.
- 2006 Raxter MH, Auerbach BM & Ruff CB. Revision of the Fully Technique for estimating statures. *American Journal of Physical Anthropology* 130:374-384.
- 2004 Auerbach BM & Ruff CB. Human body mass estimation: a comparison of "morphometric" and "mechanical" methods. *American Journal of Physical Anthropology* 125:331-342.

Peer-reviewed encyclopedia entries, articles, reports and commentaries

- 2019 Auerbach BM. "Stature estimation." In Varela SL (editor): *The SAS Encyclopedia of Archaeological Sciences*. London: Wiley-Blackwell.
- 2019 Auerbach BM. "Non-parametric statistics." In Varela SL (editor): *The SAS Encyclopedia of Archaeological Sciences*. London: Wiley-Blackwell.
- 2018 Auerbach BM. "Peopling of the New World." In Trevathan W (editor): *International Encyclopedia of Biological Anthropology*. New York: John Wiley and Sons.
- 2011 Auerbach BM. "Body mass," "body mass estimation," "stature," and "stature estimation" entries. In Wood BA (editor): *Wiley-Blackwell Encyclopedia of Human Evolution*. London: Wiley-Blackwell.
- 2010 Auerbach BM. Variety of approaches key to research in anatomical variation. *American Association of Anatomists News* 19(2):28-29.

Book reviews

- 2015 Auerbach BM. Giants are not among us: A review of *The Ancient Giants Who Ruled America: The Missing Skeletons and the Great Smithsonian Cover-up*. By R Dewhurst. Rochester, VT: Bear and Company. 2013. *American Antiquity* 80:628-629. (Invited review)
- 2009 Auerbach BM. Book review: *Analysis of Variance and Covariance: How to Choose and Construct Models for the Life Sciences*. By CP Doncaster and AJH Davey. New York: Cambridge University Press. 2007. *American Journal of Physical Anthropology* 140:767-768.

Professional ConferencesChaired sessions, symposia and conferences

- 2019 Hybrid Symposium: "Bringing Evolution into Medical Curricula (Guest Society: ISEMPH)." American Association of Anatomists Annual Mtg., Boston, MA, 8 April. Organizer and co-chair with Dr. Eilizabeth Uhl (University of Georgia).
- 2018 Conference session: "Session 17. Human Functional Skeletal Morphology." American Association of Physical Anthropology Annual Mtg., Austin, TX, 12 April. Session chair.
- 2015 Panel Discussion Member: "The Future of Evolutionary Medicine." Evolutionary Medicine Conference, Zürich, Switzerland, 1 August. Invited participant.
- 2015 ACYA Invited Symposium: "Anatomy and genetics: how phenomics informs our understanding of genomes." American Association of Anatomists Annual Mtg., Boston, MA, 29 March. Organizer and chair.
- 2013 Wiley-Blackwell Invited Symposium: "The Evolution of Biological Anthropology: Defining a Future Discipline." American Association of Physical Anthropology Annual Mtg., Knoxville, TN, 11 April. Organizer and co-chair (with Dr. Graciela Cabana)

- 2011 Invited Symposium: “Bones, Behavior & Evolution: Where do we stand, where are we moving?”
American Association of Anatomists Annual Mtg., Washington D.C., 11 April. Organizer and chair.
- 2010 ACYA Invited Symposium: “Anatomical Variation: Genetic, Developmental, & Comparative Perspectives.”
American Association of Anatomists Annual Mtg., Anaheim, California, 25 April. Chair.
- 2008 International Conference: “Biological and Archaeological Variation in the New World.”
Annual Visiting Scholar Conference, Center for Archaeological Investigations, Southern Illinois University Carbondale, Carbondale, IL, 25 – 26 April. Organizer and chair.
- 2008 Conference session: “Session 28. Human Variation, History & Evolution.”
American Association of Physical Anthropology Annual Mtg., Columbus, OH, 12 April. Session chair.
- 2007 Symposium: “Biological Variation and Evolutionary Dynamics in Ancient Populations of the Americas.”
American Association of Physical Anthropology Annual Mtg., Philadelphia, PA, 5 April. Co-chair (with Dr. Karen Weinstein)

Papers and presentations at professional conferences

- 2018 Savell KRR, Katz DC, Auerbach B, Weaver TD. A mixed model for the relationship between climate and human post-cranial morphology. American Association of Anatomists Annual Meeting, San Diego, CA.
- 2018 Agosto ER, Auerbach BM. Constraint, integration, and evolvability of the primate shoulder functional trait complex. American Association of Physical Anthropologists Annual Meeting, Austin, TX.
- 2018 Gooding AF, Sylvester AD, Auerbach BM. Age-related changes in the structural properties of the human tibia. American Association of Physical Anthropologists Annual Meeting, Austin, TX.
- 2018 Savell KRR, Katz DC, Auerbach BM, Weaver TD. A mixed model for the relationship between climate and human post-cranial morphology. American Association of Physical Anthropologists Annual Meeting, Austin, TX.
- 2017 Auerbach BM. Natural selection, mismatch, and differences in female human true pelvis morphology with respect to age. International Society of Evolutionary Medicine and Public Health Annual Meeting, Groningen, The Netherlands.
- 2017 Auerbach BM. Differences in adult female human true pelvis morphology with respect to age are not due to selection. American Association of Anatomists Annual Meeting, Chicago, IL.
- 2017 Agosto ER & Auerbach BM. Correlated responses to selection among elements of the cranium and axial skeleton between large-bodied and small-bodied tamarins. American Association of Anatomists Annual Meeting, Chicago, IL.

- 2017 Auerbach BM. Differences in adult female human true pelvis morphology with respect to age are not due to selection. American Association of Physical Anthropologists Annual Meeting, New Orleans, LA.
- 2017 Agosto ER & Auerbach BM. Correlated responses to selection among elements of the cranium and axial skeleton between large-bodied and small-bodied tamarins. American Association of Physical Anthropologists Annual Meeting, New Orleans, LA.
- 2017 Mallard AM, Watson JT & Auerbach BM. Evaluating the limitations of biological distance models of gene flow in ancient human populations. American Association of Physical Anthropologists Annual Meeting, New Orleans, LA.
- 2017 Savell KRR & Auerbach BM. Measures of evolvability in human ecogeographic body proportions across latitude. American Association of Physical Anthropologists Annual Meeting, New Orleans, LA.
- 2017 Williams SJ & Auerbach BM. Trait variation, convergence, and ecogeographic patterns in *Macaca* crania. American Association of Physical Anthropologists Annual Meeting, New Orleans, LA.
- 2017 Auerbach BM & Mallard AM. Modeling conditions necessary to detect gene flow in humans from archaeological contexts. Society for American Archaeology Annual Meeting, Vancouver, BC.
- 2017 Wall-Scheffler CM, Kurki H, Auerbach BM. Human pelvic morphology from an integrative context. Paleoanthropology Society Annual Meeting, Vancouver, BC.
- 2016 Savell KRR & Auerbach BM. Measurement theory and the P-matrix: ramifications of variable choice. International Society of Evolutionary Medicine and Public Health Annual Meeting, Durham, NC.
- 2016 Mallard AM, Savell KRR & Auerbach BM. Morphological integration and changes in pelvic dimensions with age in adult female humans. International Society of Evolutionary Medicine and Public Health Annual Meeting, Durham, NC.
- 2016 Agosto ER, Williams SJ & Auerbach BM. Cranial Base Angulation: Examining Congruence of Interior and Exterior Measurements. American Association of Anatomists Annual Meeting, San Diego, CA. Abstract: *FASEB Journal*.
- 2016 Mallard AM, Savell KRR & Auerbach BM. Morphological integration and changes in pelvic dimensions with age in adult female humans. American Association of Anatomists Annual Meeting, San Diego, CA. Abstract: *FASEB Journal*.
- 2016 Savell KRR & Auerbach BM. Measurement theory and the P-matrix: ramifications of variable choice. American Association of Anatomists Annual Meeting, San Diego, CA. Abstract: *FASEB Journal*.
- 2016 Williams SJ & Auerbach BM. Exploring ecogeography, drift, and selection on the macaque cranium. American Association of Anatomists Annual Meeting, San Diego, CA. Abstract: *FASEB Journal*.
- 2016 Auerbach BM. Rethinking environmental effects on diachronic change in adult human stature. "Evolutionary Approaches to Bioarchaeology" invited symposium, American Association of Physical Anthropologists Annual Meeting, Atlanta, GA. Abstract: *American Journal of Physical Anthropology*.
- 2015 Auerbach BM. An evolutionary perspective on human body mass. Evolutionary Medicine Conference, Institute of Evolutionary Medicine, University of Zürich, Switzerland.

- 2015 Savell KRR, Roseman CC & Auerbach BM. Selection gradients and ecogeographic variance in the human postcrania. Evolutionary Medicine Conference, Institute of Evolutionary Medicine, University of Zurich, Switzerland.
- 2015 Auerbach BM. The forces shaping size: detecting evolution in human body mass. "Body Mass Estimation in Biological Anthropology" invited symposium, American Association of Physical Anthropologists Annual Meeting, St. Louis, MO. Abstract: *American Journal of Physical Anthropology*.
- 2015 Fazlollah AE, Auerbach BM, & Shaw C. Positional relationship of the fibula to cross-sectional geometric properties of the tibia as compared in different sporting groups. American Association of Physical Anthropologists Annual Meeting, St. Louis, MO. Abstract: *American Journal of Physical Anthropology*.
- 2015 Savell KRR, Auerbach BM, & Roseman CC. Selection gradients and ecogeographic variance in the human postcrania. American Association of Anatomists Annual Meeting, Boston, MA. Abstract: *FASEB Journal*.
- 2014 Auerbach BM. The patchwork pelvis: evolution and variation in human pelvic size and shape. "Beyond the obstetric dilemma: how new studies of the pelvis are redefining our approach to hominin evolution" invited symposium, American Association of Physical Anthropologists Annual Meeting, Calgary, AB. Abstract: *American Journal of Physical Anthropology*.
- 2014 Roseman CC and Auerbach BM. Human body form is not distributed along a latitudinal cline. American Association of Physical Anthropologists Annual Meeting, Calgary, AB. Abstract: *American Journal of Physical Anthropology*.
- 2013 Auerbach BM. Thinking broadly about colonization: phenotypes of the Early Holocene and the peopling of North America. Paleoamerican Odyssey Conference, Santa Fe, NM.
- 2013 Auerbach BM & DeLeon VB. Developmental integration and functional integration in the human limbs: variation among humans and evolutionary implications. American Association of Anatomists Annual Meeting, Boston, MA. Abstract: *FASEB Journal*.
- 2013 Auerbach BM & Cabana GS. Integrating our future: evolving biological anthropology in twelve acts. "The Evolution of Biological Anthropology: Defining a Future Discipline." Wiley-Blackwell Symposium, American Association of Physical Anthropologists Annual Meeting, Knoxville, TN. Abstract: *American Journal of Physical Anthropology*.
- 2012 Auerbach BM, Dalton-Carriger J, & Sullivan LP. Southern exposure? Assessing population relationships among eastern Tennessee Valley sites from the Late Woodland and Mississippian periods. Southeastern Archaeological Conference Annual Meeting, Baton Rouge, LA.
- 2012 Fatah EEA, Shirley NR, & Auerbach BM. Bilateral directional asymmetry in the human clavicle. American Association of Anatomists Annual Meeting, San Diego, CA. Abstract: *FASEB Journal*.
- 2012 Auerbach BM. You say adaptation, I say plasticity: defining secular change by examining morphological trends among archaeological groups. "Examining the Big Picture: Working Towards a Holistic Understanding of Secular Change in Modern Populations" invited symposium, American Association of Physical Anthropologists Annual Meeting, Portland, OR. Abstract: *American Journal of Physical Anthropology* 554:87.

- 2012 Hulseley BI, Auerbach BM, & Cabana GS. A comparison of heritability and evolvability estimates in baboons. American Association of Physical Anthropologists Annual Meeting, Portland, OR. Abstract: *American Journal of Physical Anthropology* S54:170-171.
- 2011 Auerbach BM. Pelvic breadth, obstetric dimensions, and morphological constraint: the paradox of birthing hips? "Biological Anthropology" invited symposium, American Association of Anatomists Annual Meeting, Washington, D.C. Abstract: *FASEB Journal*.
- 2011 Auerbach BM. Proportions and population history: exceptions to ecogeographic expectations in the Americas. American Association of Physical Anthropologists Annual Meeting, Minneapolis, MN. Abstract: *American Journal of Physical Anthropology* S52:79.
- 2011 Campbell ML, Campbell RM, Auerbach BM, King KA, & Sylvester AD. Survival is in the balance? Asymmetry in obstetric dimensions and mortality. American Association of Physical Anthropologists Annual Meeting, Minneapolis, MN. Abstract: *American Journal of Physical Anthropology* S52:102.
- 2011 Campbell RM, Campbell ML, Sylvester AD, Auerbach BM, & King KA. Quantifying a twisted curve: 3D digitization of sciatic notch shape using a microscribe. American Association of Physical Anthropologists Annual Meeting, Minneapolis, MN. Abstract: *American Journal of Physical Anthropology* S52:102.
- 2011 Eleazer CD, Cowgill LW, & Auerbach BM. North American subadult body proportions: climatic adaptation or population history? American Association of Physical Anthropologists Annual Meeting, Minneapolis, MN. Abstract: *American Journal of Physical Anthropology* S52:132.
- 2011 King KA, Auerbach BM, Sylvester AD, Campbell ML, & Campbell RM. Death and the (narrow) maiden: pelvic dimensions, mortality, and obstetrics versus thermoregulation. American Association of Physical Anthropologists Annual Meeting, Minneapolis, MN. Abstract: *American Journal of Physical Anthropology* S52:186.
- 2011 Reeves NM, Sylvester AD, & Auerbach BM. Behavioral laterality and skeletal directional asymmetry in cottontop tamarins. American Association of Physical Anthropologists Annual Meeting, Minneapolis, MN. Abstract: *American Journal of Physical Anthropology* S52:251.
- 2011 Sylvester AD & Auerbach BM. Obscuring limb asymmetry: the geometric mean and limb indices. American Association of Physical Anthropologists Annual Meeting, Minneapolis, MN. Abstract: *American Journal of Physical Anthropology* S52:288.
- 2010 Auerbach BM. Isolation at the edge of the Mississippian? Postcranial variation and implications for regional relationships in eastern Tennessee. "Late Prehistoric Archaeology and Bioarchaeology in the Upper Tennessee River Valley" invited symposium, Southeastern Archaeological Conference Annual Meeting, Lexington, KY.
- 2010 Auerbach BM. Going to extremities: is variation in human limb lengths and proportions a paradox? "Anatomical variation: genetic, developmental & comparative perspectives" invited symposium, American Association of Anatomists Annual Meeting, Anaheim, CA. Abstract: *FASEB Journal*.
- 2010 Auerbach BM, Case DT, Kivell TL, & Garofalo, EM. Appendicular asymmetry altogether: gradients of directional asymmetry throughout the human upper limb.

- American Association of Physical Anthropologists Annual Meeting, Albuquerque, NM. Abstract: *American Journal of Physical Anthropology* S50:58-59.
- 2010 Eleazer CD, Cowgill LW, & Auerbach BM. Variation in human body proportions during ontogeny. American Association of Physical Anthropologists Annual Meeting, Albuquerque, NM. Abstract: *American Journal of Physical Anthropology* S50:100-101.
- 2010 Auerbach BM, & Bissett TG. One from many? Mississippian morphological variation in body shape and proportions. "Cahokia 2010: Situating an ancient indigenous city in the world" symposium, Society for American Archaeology Annual Meeting, St. Louis, MO. Abstract: *Society for American Archaeology 75th Annual Meeting Abstracts*.
- 2009 Auerbach BM. The substance of subsistence: body mass and nutrition in pre-Columbian North America. "The weight of the matter: body mass estimation reconsidered" symposium, American Association of Physical Anthropologists Annual Meeting, Chicago, IL. Abstract: *American Journal of Physical Anthropology* S48:80.
- 2008 Auerbach BM. Giants among us? Detecting North American patterns of migration from variation in postcranial morphology. 2008 Center for Archaeological Investigations Visiting Scholar Conference: "Biological and Archaeological Variation in the New World: a meeting of archaeology and biological anthropology." Carbondale, Illinois.
- 2008 Auerbach BM. Variations on a theme? Early Holocene human morphological variation in the New World. American Association of Physical Anthropologists Annual Meeting, Columbus, Ohio. Abstract: *American Journal of Physical Anthropology* S46:62.
- 2007 Auerbach BM, Organ JM & Rose KD. Ungual phalanx biomechanics and locomotor behavior in extant and extinct mammals. American Association of Anatomists Annual Meeting, Washington, D.C. Abstract: *FASEB Journal* 21: A601.
- 2007 Auerbach BM. Proportional patterns in prehistory: cranial and postcranial correspondence in body proportions among pre-contact Native Americans. "Biological variation and evolutionary dynamics in ancient populations of the Americas" symposium, American Association of Physical Anthropologists Annual Meeting, Philadelphia, PA. Abstract: *American Journal of Physical Anthropology* S44:66.
- 2007 DeLeon VB & Auerbach BM. Morphological integration in human long bones. American Association of Physical Anthropologists Annual Meeting, Philadelphia, PA. Abstract: *American Journal of Physical Anthropology* S44:96.
- 2007 Raxter MH, Ruff CB, Azab A, Erfan M, El-Sawaf A & Auerbach BM. New long bone stature estimation equations for ancient Egyptians. American Association of Physical Anthropologists Annual Meeting, Philadelphia, PA. Abstract: *American Journal of Physical Anthropology* S44:196.
- 2006 Auerbach BM. One of these is not like the other? Skeletal variation in western Alaska Native Americans, climate, and population history. "The Bioarchaeology of pre-contact Point Hope, Alaska" invited symposium, American Association of Physical Anthropologists Annual Meeting, Anchorage, AK. Abstract: *American Journal of Physical Anthropology* S42:59.
- 2006 Raxter MH, Auerbach BM & Barker KB. Patterns of clavicular asymmetry in relation to humeral asymmetry in humans and great apes. American Association of Physical Anthropologists Annual Meeting, Anchorage, AK. Abstract: *American Journal of Physical Anthropology* S42:152.

- 2005 Auerbach BM, Raxter MH & Ruff CB. If I only had a...: missing element estimation accuracy using the Fully Technique for estimating statures. American Association of Physical Anthropologists Annual Meeting, Milwaukee, WI. Abstract: *American Journal of Physical Anthropology* S40:70.
- 2005 Raxter MH, Auerbach BM & Ruff CB. A test of Fully's stature reconstruction technique in Terry Collection whites and blacks. American Association of Physical Anthropologists Annual Meeting, Milwaukee, WI. Abstract: *American Journal of Physical Anthropology* S40:172-173.
- 2004 Auerbach BM & Ruff CB. The right preferences? Bilateral Asymmetry in the upper and lower limbs of modern humans. American Association of Physical Anthropologists Annual Meeting, Tampa, FL. Abstract: *American Journal of Physical Anthropology* S38:56.
- 2003 Auerbach BM & Ruff CB. Mass matters: an evaluation of two body mass estimation techniques in modern human populations. American Association of Physical Anthropologists Annual Meeting, Tempe, AZ. Abstract: *American Journal of Physical Anthropology* S36:61.
- 2001 Auerbach BM & Lahr MM. Variation in a pre-industrial population: occupation and stature in early Twentieth Century Crete. American Association of Physical Anthropologists Annual Meeting, Kansas City, MO. Abstract: *American Journal of Physical Anthropology* S32:34.

Professional Workshops and Tutorials

- 2016 National Institute for Mathematical and Biological Synthesis (NIMBioS) Evolutionary Quantitative Genetics Tutorial. 8-12 August. Participant.
- 2017 Evolutionary Modelling. Monash Biomedicine Discovery Institute, School of Biomedical Sciences, Monash University, Melbourne, Australia. 23-24 November. Nine participants. Organizer and principal lecturer.

Teaching Experience – Advising – Invited Lectures

Teaching interests and specialties

Osteology and skeletal biology, human gross anatomy (cadaver-based dissection), evolutionary biology (quantitative and population genetics), human morphological variation, advanced quantitative methods (statistics; specialties in GLM, rank statistics, factor analyses, survival analysis, resampling methods), archaeology and biology, allometry, morphometrics, peopling of the Americas, biomechanics, human embryology

Courses taught at the University of Tennessee

- *Advanced Evolutionary Biology* – Instructor (2015). Graduate lecture & seminar.
- *Anthropological Statistics I* – Instructor (2009 – 2016). Graduate lecture & seminar.
- *Anthropological Statistics II* – Instructor (2011 – 2019). Graduate lecture & seminar.
- *Biology of Human Variability* – Instructor (2011). Upper-division undergrad seminar.
- *Biomechanics* – Instructor (2009, 2013, 2018). Graduate seminar.

- *Current Trends in Anthropology* – Instructor (2016). Undergraduate and graduate lecture series. Topic: “Disease: Variation and Multidisciplinary Perspectives.”
- *Evolutionary Biology for Anthropologists* – Instructor (2015, 2019). Upper-division undergrad lecture & seminar.
- *Human Anatomy* – Instructor and course director (2008 – 2010, 2012 – 2018). Large (310-student) undergraduate lecture with lab sections. (Taught for Department of Ecology and Evolutionary Biology)
- *Human Gross Anatomy* – Instructor and course director (2010, 2012, 2014, 2016, 2018). Graduate lecture and laboratory course. (Anthropology & Biomedical Engineering students)
- *Method and Theory in Biological Anthropology* – Course director (2013), invited lecturer (2009 – 2012, 2014). Graduate seminar.
- *Migration and Morphometrics* – Instructor (2009). Graduate seminar.
- *Readings in Evolutionary Biology* – Instructor (2009 – 2013). Summer directed reading for graduate students.

Courses taught elsewhere

- *Human Diversity and the Peopling of the Americas* – Instructor (2008). Graduate Seminar. Southern Illinois University Carbondale.
- *Human Gross Anatomy* – Laboratory instructor and tutor (2004 – 2006). Medical and graduate students. Johns Hopkins University School of Medicine.
- *Human Osteology* – Course director and co-instructor (2004). Undergraduate lecture and laboratory course. University of Maryland.
- *Summer Institute in Anatomy* – Laboratory instructor (2003 – 2004). Undergraduate anatomy course. Johns Hopkins University School of Medicine.

Graduate student advising and dissertation / thesis supervision

Chaired dissertations and theses:

- 2017 – (2022) Katharine G. Ryan. Ph.D. dissertation (untitled). Department of Anthropology, The University of Tennessee. Chair.
- 2015 – (2020) Angela M. Mallard (ABD). Ph.D. dissertation (untitled). Department of Anthropology, The University of Tennessee. Chair.
- 2014 – (2020) Samuel J. Williams (ABD). Ph.D. dissertation (untitled). Department of Anthropology, The University of Tennessee. Chair.
- 2014 – (2019) Elizabeth R. Agosto (ABD). Ph.D. dissertation (untitled). Department of Anthropology, The University of Tennessee. Chair.
- 2011 – (2019) David Echeverry (ABD). Ph.D. dissertation (untitled). Department of Anthropology, The University of Tennessee. Co-chair with Dr. David Anderson.
- 2013 – 2018 Kristen R.R. Savell. Ph.D. dissertation: “*Postcranial evolution in humans with respect to trait covariance and ecogeography.*” Department of Anthropology, The University of Tennessee. Chair.
- 2012 – 2017 Alice F. Gooding. Ph.D. dissertation: “*Variation in Cortical Bone Distribution in the Aging Adult Appendicular Skeleton.*” Department of Anthropology, The University of Tennessee. Co-chair with Dr. Dawnie Steadman.

- 2010 – 2017 Kimberly T. Wren. Ph.D. dissertation: *“The Effects of Racialization on European American Stress in the Nineteenth and Twentieth Centuries.”* Department of Anthropology, The University of Tennessee. Chair (2015-2017).
- 2010 – 2015 Amber D. Wheat. Ph.D. dissertation: *“Investigating Postnatal Ontogeny in the Craniofacial Complex of Human Juveniles.”* Department of Anthropology, The University of Tennessee. Chair.
- 2010 – 2013 Rebecca K.S. Kelso. Ph.D. dissertation: *“A Comparison of Mississippian Period Subadults from the Middle Cumberland & Eastern Tennessee, and the Role of Biological Indicators in Assessing the Health and Migration of Past Populations.”* Department of Anthropology, The University of Tennessee. Chair.
- 2009 – 2013 Nicole M. Reeves. Ph.D. dissertation: *“Augmenting Functional Adaptation: Does Obesity have a Systemic Effect on Bone Strength in Humans?”* Department of Anthropology, The University of Tennessee. Chair.
- 2008 – 2013 Courtney D. Eleazer. Ph.D. dissertation: *“The Interaction of Mechanical Loading and Metabolic Stress on Human Cortical Bone: Testing Anthropological Assumptions Using Cross-Sectional Geometry and Histomorphology.”* Department of Anthropology, The University of Tennessee. Chair.

Doctoral student committee participation:

- 2018 – (2023) Haley E. Horbaly. Ph.D. dissertation (untitled). Department of Anthropology, The University of Tennessee. Committee member.
- 2016 – (2021) Greg J. Wehrman. Ph.D. dissertation (untitled). Department of Anthropology, The University of Tennessee. Committee member.
- (2018) Frankie L. West. Ph.D. dissertation (untitled). Department of Anthropology, The University of Tennessee. Committee member.
- 2008 – 2018 Ryan M. Campbell. Ph.D. dissertation: *“Biological Affinity and Activity Induced Long Bone Growth during the Coalescent Period on the American Great Plains.”* Department of Anthropology, Southern Illinois University Carbondale. External committee member.
- 2013 – 2016 Janna M. Andronowski. Ph.D. dissertation: *“Evaluating differential nuclear DNA yield rates among human bone tissue types: a synchrotron micro-CT approach.”* Department of Anthropology, The University of Tennessee. Committee member.
- 2012 – 2015 Kyle A. McCormick. Ph.D. dissertation: *“A biologically informed structure to accuracy in osteometric reassessment.”* Department of Anthropology, The University of Tennessee. Committee member.
- 2012 – 2016 Jocelyn D. Minsky-Rowland. Ph.D. dissertation: *“The effect of social and environmental stress among the historic Arikara Native Americans”*. Department of Anthropology, The University of Tennessee. Committee member.
- 2012 – 2016 Hillary R. Parsons. Ph.D. dissertation: *“The accuracy of forensic anthropology methods in casework: an analysis of forensic anthropology reports in the medical examiners offices of New York City, NY; Harris County, TX; and Pima County, AZ.”* Department of Anthropology, The University of Tennessee. Committee member.

- 2012 – 2016 Christina L. Fojas. Ph.D. dissertation: *“Modeling prehistoric health in the Middle Cumberland Region of Tennessee: Mississippian populations on the threshold of collapse.”* Department of Anthropology, The University of Tennessee. Committee member.
- 2011 – 2015 Beatrix Dudzik. Ph.D. dissertation: *“Investigating cranial variation in Japanese populations using geometric morphometrics.”* Department of Anthropology, The University of Tennessee. Committee member.
- 2011 – 2016 Shauna L. McNulty. Ph.D. dissertation: *“An analysis of skeletal trauma patterning of accidental and intentional injury.”* Department of Anthropology, The University of Tennessee. Committee member.
- 2010 – 2015 Miriam Soto-Martinez. Ph.D. dissertation: *“Is quantitative ultrasound a valid technique for assessing bone quality in deceased infants?”* Department of Anthropology, The University of Tennessee. Committee member.
- 2009 – 2016 Brannon I. Hulsey. Ph.D. dissertation: *“A quantitative genetic analysis of limb segment morphology in humans and other primates: genetic variance, morphological integration, and linkage analysis.”* Department of Anthropology, The University of Tennessee. Committee member.
- 2008 – 2015 Meadow L. Campbell. Ph.D. dissertation: *“Biological Distance and Biocultural Exchange Among Archaic Populations in the Southeast United States.”* Department of Anthropology, Southern Illinois University Carbondale. External committee member.
- 2011 – 2014 Yangseung Jeong. Ph.D. dissertation: *“Investigating secular changes in stature and body mass in Korea for the past two millennia with new Korean-specific equations for stature and body mass estimation.”* Department of Anthropology, The University of Tennessee. Committee member.
- 2011 – 2014 Shannon E. May. Ph.D. dissertation: *“An investigation of diabetes mellitus in postmortem human remains.”* Department of Anthropology, The University of Tennessee. Committee member.
- 2009 – 2014 Thaddeus G. Bissett. Ph.D. dissertation: *“Investigating the origins of the Shell Mound Archaic: Occupational histories and interaction among shell-bearing sites in western Tennessee.”* Department of Anthropology, The University of Tennessee. Committee member.
- 2009 – 2012 Alicja K. Lanfear. Ph.D. dissertation: *“Records of the Institut Fuer Deutsche Ostarbeit (1940-1943): Using Anthropometrics of Polish Populations to Examine Secular Trends and Region Specific Variation.”* Department of Anthropology, The University of Tennessee. Committee member.

Masters student committee participation:

- 2016 – 2017 Haley E. Horbaly. M.A. thesis: *“The influence of body size on sexual dimorphism.”* Department of Anthropology, The University of Tennessee. Committee member.
- 2010 – 2011 Rachel L. Vykukal. M.A. thesis: *“Purpurae Florem of Mitrou: Assessing the Role of Purple Dye Manufacture in the Emergence of a Political Elite.”* Department of Anthropology, The University of Tennessee. Committee member.
- 2009 – 2013 Erin L. Knapp. M.A. thesis: *“An Assessment of the Effect of X-ray Radiation on*

- DNA Marker Profiles Obtained from Human Teeth.* Department of Anthropology, The University of Tennessee. Committee member.
- 2010 – 2013 Lauren A. Garroway. M.A. thesis: *“Two of a Kind: Using Bilateral Asymmetry to Reassociate Commingled Remains and Estimate the Original Contents of Assemblages.”* Department of Anthropology, The University of Tennessee. Committee member.

Undergraduate senior honors thesis supervision

- 2013 – 2014 Sarah A. Hall, B.A. *“Laterality and Handedness: Analysis of Metacarpal Cross-sectional Geometry in Archaic Populations.”* The University of Tennessee Honors Program Senior Thesis.
- 2010 – 2011 Courtney L. Cox, B.A. *“Skeletal Analysis of the West Site (40DV12).”* The University of Tennessee Honors Program Senior Thesis.

The University of Tennessee College Scholars advisor

- 2014 – 2016 Reagan E. Long, B.A. in Medical Illustration

Invited lectures

- 2017 “Natural selection and population history in the evolution of human body form.” Invited seminar. Monash Biomedicine Discovery Institute, School of Biomedical Sciences, Monash University, Melbourne, Australia. 14 November.
- 2014 “Modeling the genetics and evolution of modern human phenotypes.” Invited seminar. Department of Ecology & Evolutionary Biology, The University of Tennessee. 10 January.
- 2013 “Stature & body estimation and anthropometry.” *University of Tennessee Forensic Anthropology Center Human ID Summer Short Course.* Knoxville, TN. 19 June.
- 2012 “Grasping human limb morphology: What morphological integration, asymmetry, and cross-sectional properties are revealing about limb bone variation and evolution.” Invited lecture. Division of Biological Anthropology, University of Cambridge. Cambridge, England. 8 October.
- “Stature, stature estimation and anthropometry.” *University of Tennessee Forensic Anthropology Center Human ID Summer Short Course.* Knoxville, TN. 12 July.
- “NAGPRA and the American Association of Physical Anthropologists.” Guest lecture. *Archaeological Resource Management (ANTH 461)*, Department of Anthropology, The University of Tennessee. 4 April.
- 2011 “Effects of agriculture on human variation in North America.” Guest lecture. *Cultivating the Past: Global Perspectives on the Origins of Agriculture (ANTH 369)*, Department of Anthropology, The University of Tennessee. 30 November.
- “Stature & body estimation and anthropometry.” *University of Tennessee Forensic Anthropology Center Human ID Summer Short Course.* Knoxville, TN. 14 July.
- “Standing still on the edge? Body shape, climate, and the peopling of the Americas.” Department of Anthropology, University of Missouri. Columbia, MO. 4 May.
- 2010 “Stature, stature estimation and anthropometry.” *University of Tennessee Forensic*

- Anthropology Center Human ID Summer Short Course*. Knoxville, TN. 8 July.
- 2009 “Morphology and movement: tracing population migrations in North America by variations in body shape and proportions.” *A Scholarly Potpourri* Visiting Lecture Series, Department of Anthropology, The University of Tennessee. Knoxville, TN. 27 October.
- “Stature and stature estimation.” *University of Tennessee Forensic Anthropology Center Human ID Summer Short Course*. Knoxville, TN. 16 July.
- “A case of cold feet? Human colonizations of the Americas.” *The University of Tennessee Science Forum Lecture Series*. Knoxville, TN. 20 February.
- 2008 “The transition to agriculture in North America: morphology & diet.” *Communities in Crisis* Visiting Lecture Series, Department of Anthropology, The University of Tennessee. Knoxville, TN. 25 November.
- “Developing a body of knowledge: human morphological variation in the Americas as viewed from the early Holocene.” Department of Anthropology, University of Illinois at Urbana-Champaign. Urbana, IL. 7 May.
- “Developing a body of knowledge: human morphological variation in the Americas as viewed from the early Holocene.” *Lectures in Contemporary Anthropology Series*, Department of Anthropology, Miami University. Oxford, OH. 7 March.
- “Human origins and diversity in the Americas: a view from the early Holocene.” *Finding Bridges* Seminar Series, Department of Anthropology, Southern Illinois University Carbondale. Carbondale, IL. 19 February.
- 2007 “Human origins and diversity in the Americas: a view from the early Holocene.” Department of Anthropology, Washington University. Saint Louis, MO. 30 November.

Seminars and journal club organization & participation

- 2018 Brown bag: “Getting Published in Anthropology” (21 March), Department of Anthropology, The University of Tennessee. Panelist.
- 2015 “*Homo naledi*: a critical discussion about species identification in the fossil record.” (28 October), Department of Anthropology, The University of Tennessee.
- 2015 “Modularity” Journal Club discussion leader. Weekly meetings (August – December), graduate students, Molecular Anthropology & Osteometric Variation Analysis Laboratories, Department of Anthropology, The University of Tennessee
- 2013 “Morphological integration” Journal Club discussion leader. Biweekly meetings (January – April), graduate students, Molecular Anthropology & Osteometric Variation Analysis Laboratories, Department of Anthropology, The University of Tennessee
- 2011 “Expansion and contraction of organelle genomes.” (2 November) Guest discussion leader, EEB 504: *Genome Evolution*, Department of Ecology & Evolutionary Biology, The University of Tennessee
- “*Australopithecus sediba*: evolutionary positions & academic reputations” (19 October), Department of Anthropology, The University of Tennessee (co-leader with Dr. Andrew Kramer)
- “Genomes of the Pleistocene” (23 March), Department of Anthropology, The University of Tennessee (co-leader with Drs. Andrew Kramer and Graciela Cabana)

- “Epigenetics” Journal Club discussion leader. Biweekly meetings (January – May), graduate students, Molecular Anthropology & Osteometric Variation Analysis Laboratories, Department of Anthropology, The University of Tennessee
- 2010 *Homo floresiensis* (19 March), Department of Anthropology, The University of Tennessee (co-leader with Dr. Andrew Kramer)
- 2009 *Ardipithecus ramidus* (13 November), Department of Anthropology, The University of Tennessee (co-leader with Dr. Andrew Kramer)

Professional Service and Awards

National and international professional offices and committee membership

- 2018 – Mentoring Committee, American Association of Physical Anthropologists
- 2016 – Scientific Program Committee, American Association of Physical Anthropologists Annual Meeting
- 2014 – 2015 Advance Meeting Planning Committee, American Association of Physical Anthropologists
- 2012 – 2013 Local Arrangements Committee, American Association of Physical Anthropologists (Annual Meeting)
- 2011 – Repatriation Committee, American Association of Physical Anthropologists
2017 – 2020 Chair
2011 – 2017 Member
- 2010 – 2014 Advisory Committee for Young Anatomists, American Association of Anatomists

Professional journal editorial positions

- 2015 – Associate Editor, *Human Biology*
- 2016 – Associate Editor, *American Journal of Physical Anthropology*

Department and university committees & activities

- 2008 – The University of Tennessee**
- 2016 – 2020 Phi Beta Kappa Epsilon of Tennessee Executive Committee:
2018 – 2020 Vice President
2016 – 2018 Historian
- 2015 – 2016 Chancellor’s Awards Selection Committee, Research Council. Chair.
- 2013 – 2016 Treasurer, Sigma Xi, University of Tennessee Chapter
- 2013 – 2016 University Faculty Senate, Social Science Caucus.
- 2013 – 2016 Research Council (Faculty Senate Member)
- 2012 – Faculty member of the Intercollegiate Graduate Statistics Program and Department of Anthropology representative
- 2010 – 2012 Phi Beta Kappa Epsilon of Tennessee, Member in Course
- 2009 – 2014 Provost’s Junior Faculty Fellows (appointed position)
- 2008 – College of Arts and Sciences, The University of Tennessee**
- 2018 – 2021 College Curriculum Committee, Member
- 2018 – 2019 Task Force for Pre-Health Programs

- 2008 – Department of Anthropology, The University of Tennessee**
- 2018 – Equipment Committee
2018 – Member
- 2018 Department of Anthropology Strong Hall repair liaison
- 2016 – Department of Anthropology Curriculum Committee
2018 – Member
2016 – 2017 Chair
- 2015 – 2016 Ad hoc Committee on Curricular Reform. Chair.
- 2015 – 2017 Department of Anthropology Strong Hall relocation planning coordinator.
- 2010 – Special Topics in Anatomy Lecture Series
2018 Organizer (9 speakers)
2016 Organizer (8 speakers)
2014 Organizer (8 speakers)
2012 Organizer (10 speakers)
2010 Organizer (5 speakers)
- 2009 – Department of Anthropology graduate admissions committee
2018 – 2021 Biological Anthropology Member
2010 – 2011 Chair
2009 – 2012 Biological Anthropology Member
- 2009 – 2016 Department of Anthropology Curation Committee.
- 2008 – Search Committees
2015 – 2016 Curator position search committee. Member.
2014 – 2015 Archaeology tenure-track position search committee. Member.
2010 – 2011 Senior level forensic anthropologist tenure-track position search committee. Member.
2008 – 2009 Forensic anthropology tenure-track position search committee. Member.
- 2008 – 2011 Department of Anthropology graduate program reform *ad hoc* committee.
- 2008 – 2010 Department of Anthropology undergraduate scholarship selection committee.

Curatorial experience

- 2009 – Curator for the University of Tennessee Department of Anthropology's small primate osteology collection (pedigreed tamarins from the Marmoset Research Center colony, Oak Ridge, Tennessee)
- 2009 – Maintain human osteological databases for public access via web site: The Goldman Osteological Data Set, the Howells Craniometric Data Set, and the Americas Postcranial Data Set (<http://web.utk.edu/~auerbach/DATA.htm>)
- 2009 – 2016 Acting curator for human archaeological osteological collections in the University of Tennessee Department of Anthropology (River Basin Survey sites, Middle Cumberland Tennessee sites, Texas Red River sites)

Professional memberships

2015 – American Association of Anthropological Genetics
 2015 – The International Society for Evolution, Medicine & Public Health
 2012 – Southeastern Archaeological Conference
 2011 – Archaeological Institute of America
 2008 – Society of American Archaeologists
 2006 – American Association of Anatomists
 2004 – Phi Beta Kappa Active Member
 2001 – American Association for the Advancement of Science
 2001 – 2003 American Academy of Religion (Student Member)
 2001 – 2003 American Anthropological Association (Student Member)
 1999 – American Association of Physical Anthropologists
 1999 – Sigma Xi (Full Member in 2012)

Evaluation of grants

L.S.B. Leakey Foundation (2011 – 2013)
 Swiss National Science Foundation (2017)
 National Science Foundation (2015 – 2018)

Evaluation of manuscripts for journals

American Antiquity (2012, 2014 – 2015)
 American Journal of Human Biology (2015, 2016)
 American Journal of Physical Anthropology (2007 – 2018)
 Anatomy Research International (2011 – 2012)
 Anatomical Record (2011 – 2018)
 Annals of the New York Academy of Sciences (2012)
 Archaeological Science (2009, 2013, 2014, 2016, 2017)
 Bioarchaeology of the Near East (2009)
 Biological Journal of the Linnean Society (2012)
 Bulletin of the Swiss Anthropology Society (2010)
 Current Anthropology (2008 – 2011, 2016)
 Human Biology (2012, 2014)
 International Journal of Osteoarchaeology (2006; 2009; 2013)
 International Journal of Paleopathology (2011 – 2012, 2016, 2017)
 Journal of Anatomy (2012 – 2013)
 Journal of Archaeological Science (2013, 2014, 2016, 2017)
 Journal of Comparative Human Biology (HOMO) (2008; 2010 – 2011; 2015)
 Journal of Human Evolution (2009 – 2017)
 Paleoamerica (2014)
 Proceedings of the National Academy of Sciences (2010, 2012, 2017, 2018)
 Proceedings of the Royal Society – B (2012 – 2014)
 Public Library of Science (PLOS) One (2012 – 2014; 2016, 2017)
 Quaternary International (2014)

Science (2014)
South African Journal of Science (2014)

Evaluation of book précis, edited volume chapters and books for publishers

Peregrine PN. 2018. *Anthropological Statistics: A Workbook Using R*. New York: Routledge, Taylor & Francis Group. Peer evaluator for book proposal.

Vilensky JA & Gilman S. 2015. *The Cranial Nerves: An Introduction to the Unique Nerves of the Head, Neck and Special Senses*. Hoboken: Wiley-Blackwell. Peer evaluator for book précis.

Pinhasi R & Stock JT (editors). 2011. *Human Bioarchaeology of the Transition to Agriculture*. London: Wiley-Liss. Evaluated two chapters.

Tank PW & Gest TR. 2008. *Lippincott Williams & Wilkins Atlas of Anatomy*. First edition. Philadelphia: Lippincott Williams & Wilkins. Evaluated volume for new edition.

Appearances in media

- 2013 Research paper subject of news article: Lepper BT. 2013. Early skeletons suggest a single source population for the first Americans. *Mammoth Trumpet* 28(2): 42-45.
- 2012 Quoted in Associated Press story: Carola C. 6 February. "Despite ceremony, NY fort's skeletons not buried."
- 2011 "Working Hands." *Heartland Series* (Knoxville, Tennessee, production).
On screen interview and scientific consultant. Aired 30 March 2011.

Science communication and outreach

2017 – Editor and contributor, The OVAL Window Science Blog (theovalwindow.com)

Honors and awards

- 2013 Finalist, The University of Tennessee Outstanding Teacher Award
- 2001 Phi Beta Kappa
Miami University:
Magna Cum Laude
University Honors and Departmental Honors, Department of Comparative Religion
Departmental Honors, Department of Sociology, Gerontology and Anthropology
Miami University Dean's Certificate for Distinguished Student Achievement
Anthropology Departmental Award for Excellence in Research
Newell S. Booth Award (Outstanding Student in the Study of Religion)
- 2000 Miami University Undergraduate Summer Scholar, Miami University (used to fund research at the University of Cambridge, Department of Biological Anthropology)
- 1997 – 2001 Miami University Harrison Scholar