DEBORAH L. CUNNINGHAM, PH.D.
CURRICULUM VITAE
January, 2023

COMMUNICATION:

Department of Anthropology
Texas State University
601 University Drive
San Marcos, Texas 78666
deborah.cunningham@txstate.edu

1000 Dove Drive
Manchaca, Texas 78652
(512) 557-5484 (mobile)

EDUCATION:

May, 2005 — Doctor of Philosophy (Ph.D.) in Anthropology
- University of Missouri-Columbia
- Paleoanthropology concentration
- Dissertation title: "Postcranial proportional variation in *Australopithecus*"
- Committee: Carol Ward (advisor), R. Lee Lyman, Robert A. Benfer, Jr., Theodore M. Cole, III, Charles A. Lockwood

December, 1998 — Master of Arts (M.A.) in Anthropology
- University of Tennessee, Knoxville
- Statistics minor
- Thesis title: "The morphometric relationship of Upper Cave 101 and 103 to modern *Homo sapiens*"
- Committee: Andrew Kramer (advisor), Richard L. Jantz, Lyle W. Konigsberg, John Philpot

May, 1991 — Bachelor of Arts (B.A.) in Anthropology
- Appalachian State University, Boone, North Carolina
- History minor

ACADEMIC APPOINTMENTS:

- Senior Lecturer, September 2021 – present. Department of Anthropology, Texas State University
- Micro-CT Principal Equipment Operator, 2014 - present. Department of Anthropology, Texas State University (NSF MRI 1338044 from 2014-2015; funded by Department of Anthropology since 2015)
- Lecturer, January 2017 – August 2021. Department of Anthropology, Texas State University
- Adjunct Faculty Member, January 2012 – December 2016. Department of Anthropology, Texas State University
- Assistant Professor of Clinical Biomedical Science, August 2008 – December, 2011. Integrated Medical Science Department, Charles E. Schmidt College of Medicine (formerly Department of Clinical Science and Medical Education, Charles E. Schmidt College of Biomedical Science), Florida Atlantic University
- Affiliated Assistant Professor, August 2008 – May 2011. Department of Cell Biology and Anatomy, Miller School of Medicine, University of Miami
- Lecturer/Resident Instructor, Summer 2007 – August 2008. Department of Pathology and Anatomical Sciences, University of Missouri-Columbia
- Visiting Assistant Professor, August 2006 – May 2007. Department of Anthropology, University of Missouri-Columbia

ACADEMIC APPOINTMENTS (cont'd):

- Postdoctoral Fellow, September 2005 – April 2006. Human Origins Program, Department of Anthropology, Smithsonian Institution, National Museum of Natural History
- Visiting Assistant Professor, August 2004 – May 2005. Department of Sociology, Anthropology, and Social Work, Texas Tech University
- Graduate Instructor, Winter 2003 & Winter 2004. Department of Anthropology, University of Missouri-Columbia
- Teaching Assistant/Laboratory Instructor, Fall 2002 - Fall 2003. Division of Biological Sciences, University of Missouri-Columbia
- Teaching Assistant/Laboratory Instructor, Summer 1999 & Summer 2001. Department of Pathology and Anatomical Sciences, University of Missouri-Columbia
- Teaching Assistant/Laboratory Instructor, Fall 1999 -Winter 2001. Department of Anthropology, University of Missouri-Columbia

PUBLICATIONS:

Li H, Shi G, Meckel L, **Cunningham DL,** Wescott DJ, Sylvester AD, Charon N, & Zbijewski W (accepted). Body mass classification from skeletal elements using landmark-free morphological atlas estimation with diffeomorphic shape mapping. SPIE Medical Imaging.

Sylvester AD, Wescott DJ, **Cunningham DL,** & Gleiber DS (accepted). Effects of obesity on talar micro- and macro-morphology. *Journal of Forensic Sciences*.

Cunningham DL, Rogers MV, Wescott DJ, & McCarthy RC (2019). Re-evaluation of the body mass estimate for the KNM-ER 5428 *Homo erectus* talus. American Journal of Physical Anthropology 170:148-155.

Cunningham DL, Graves RR, Wescott DJ, & McCarthy RC (2018). The effect of ontogeny on estimates of KNM-WT 15000's adult body size. Journal of Human Evolution 121:119-127.

Christensen AM, Smith MA, Wescott DJ, Gleiber DS, & **Cunningham DL** (2018). The use of industrial x-ray computed tomography technologies in forensic anthropology. Forensic Anthropology 1(2):121-140.

Williams FL, **Cunningham DL**, & Amaral LQ (2015). Forearm articular proportions and the antebrachial index in *Homo sapiens*, *Australopithecus afarensis* and the great apes. HOMO – Journal of Comparative Human Biology 66(6):477-491.

Wescott DJ, **Cunningham DL,** & Hunt DR (2014). Temporal trends in femoral diaphyseal torsional asymmetry among the Arikara associated with postural behavior. American Journal of Physical Anthropology 154:512-524.

Cunningham DL (2013). Review of The Fossil Chronicles: How Two Controversial Discoveries Changed Our View of Human Evolution. American Journal of Physical Anthropology 152:430-431.

Graves RR, Lupo AC, McCarthy RC, Wescott DJ, & **Cunningham DL** (2010). Just how strapping was KNM-WT 15000? Journal of Human Evolution 59:542-554 (also see Science 328 [5977]:413).

Cunningham DL & Wescott DJ (2009). Still more "fancy" and "myth" than "fact" in students' conceptions of evolution. Evolution: Education and Outreach 2(3):505-517.

Wescott DJ & **Cunningham DL** (2006). Temporal changes in Arikara humeral and femoral cross-sectional geometry associated with horticultural intensification. Journal of Archaeological Science 33:1022-1036 (also see Science 312 [5773]:507).

Wescott DJ & **Cunningham DL** (2005). Recognizing and understanding student misconceptions about science and evolution. MountainRise 2(2): (http://facctr.wcu.edu/mountainrise/archive/vol2no2/html/science_evolution.html).

PUBLICATIONS (cont'd):

Cunningham DL (2004). Review of Dragon Bone Hill: An Ice-Age Saga of *Homo erectus*. American Journal of Human Biology 16:716-718.

Cunningham DL & Jantz RL (2003). Craniometric relationships of Paleoamericans and Archaic Indians. Current Research in the Pleistocene 20:87-89.

Cunningham DL & Jantz RL (2003). The morphometric relationship of Upper Cave 101 and 103 to modern *Homo sapiens*. Journal of Human Evolution 45:741-758.

Cunningham DL & Wescott DJ (2002). Within-group human variation in the Asian Pleistocene: The three Upper Cave crania. Journal of Human Evolution 42:627-638.

Cunningham DL (1999). Creationist tornado rips evolution out of Kansas science standards. Reports of the National Center for Science Education 19(4):10-15.

Cunningham DL (1999). Language and human evolution. Lambda Alpha Journal 29:50-62.

GRANTS:

2022/pending	National Science Foundation, Major Research Instrumentation. NSF MRI: Acquisition of X-ray Computed Tomography Microscope for Research, Education, and to Increase Diversity in the STEM Workforce. PI: Daniel J. Wescott, Co-PIs: **Deborah L. Cunningham**, Xijun Shi, Sophia Mavroudas, Timothy P. Gocha, $2,364,039 [pending].
2020	National Institute of Justice, Basic Scientific Research to Support Forensic Science for Criminal Justice Purposes. Body mass estimation using bone micro- and macro-structure: a practical approach using CT imaging and computer analysis. Texas State University. PI: Daniel J. Wescott, Co-PI: **Deborah L. Cunningham**. $683,542.
2019	National Science Foundation (Biological Anthropology Program). Collaborative research: obesity as a natural experiment to investigate bone functional adaptation. Texas State University PIs: Daniel J. Wescott and **Deborah L. Cunningham**. Johns Hopkins PI: Adam Sylvester. $255,500 requested ($160,439 TXST, $95,061 JHU).
2002 - 2004	Grants funding dissertation research: "Postcranial proportional variation in *Australopithecus*" • National Science Foundation Dissertation Improvement Grant ($9,000) • Sigma Xi Grant-in-Aid of Research ($800) • Sigma Xi Grant-in-Aid of Research ($975) • P.E.O. Chapter Z of Kansas ($500) • American Museum of Natural History Collection Study Grant ($950)
1999, 2000, 2001, 2003, 2004	Graduate Professional Council (4)/Graduate Student Association (2) travel grants • University of Missouri-Columbia • Expense monies for AAPA meetings in San Antonio, Columbus, Tempe, Kansas City and Tampa
1998	Graduate student travel grant • University of Tennessee, Knoxville

PROFESSIONAL PRESENTATIONS:

McCarthy RC, **Cunningham DL,** Wescott DJ (2022). New body mass-at-death estimates for KNM-WT 15000 (*Homo erectus*). Paper presented at the 91st American Association of Biological Anthropologists annual meeting in Denver, Colorado.

Sylvester AD, Wescott DJ, **Cunningham DL,** Gleiber DS (2022). Body mass and trabecular structure in the human talus. Paper presented at the 91st American Association of Biological Anthropologists annual meeting in Denver, Colorado.

Campbell TL, Baker SA, **Cunningham DL,** Daza JD (2021). Comparison of two packing methodologies for microfaunal mCT scanning. Poster presented at the Tomography for Scientific Advancement (ToScA) conference (held virtually).

Rodriguez AL, **Cunningham DL,** Wescott DJ, McCarthy RC (2021). Estimating body mass in modern humans using the distal humerus with application to the MK3 fossil hominin. Poster presented at the 90th annual meeting of the American Association of Physical Anthropologists (held virtually).

McCarthy RC, Kanani D, **Cunningham DL,** Wescott DJ (2021). Revised estimates of stature-at-death and body proportions for KNM-WT 15000 (*Homo erectus*). Paper presented at the 90th annual meeting of the American Association of Physical Anthropologists (held virtually).

Rodriguez AL, **Cunningham DL,** Wescott DL, McCarthy RC (2020). Estimating body mass in modern humans using the distal humerus with application to the MK3 fossil hominin. Poster accepted for presentation at the 89th annual meeting of the American Association of Physical Anthropologists in Los Angeles, California. CANCELLED DUE TO COVID-19

Russell CK, Gleiber DS, **Cunningham DL,** Wescott DJ, Sylvester AD (2020). Trabecular mapping: effects of intra- and interobserver error on sliding semilandmark placement. Poster accepted for presentation at the 89th annual meeting of the American Association of Physical Anthropologists in Los Angeles, California. CANCELLED DUE TO COVID-19

McCarthy RC, Qadri SM, Bhullar S, Zimel E, Petrikas M, **Cunningham DL,** Wescott DJ (2020). New adult brain size estimates for juvenile hominins. Poster accepted for presentation at the 89th annual meeting of the American Association of Physical Anthropologists in Los Angeles, California. CANCELLED DUE TO COVID-19

Rodriguez AL, **Cunningham DL,** Wescott DJ, McCarthy RC (2019). Association between distal humerus measurements and body mass in modern humans: applications for fossil hominin MK3. Poster presented at annual meeting of Texas Association of Biological Anthropologists in Waco, Texas.

Russell CK, **Cunningham DL,** Wescott DJ, Gleiber DS, Sylvester AD (2019). Sensitivity of trabecular mapping to sliding semilandmark placement. Poster presented at American Association of Anatomists at Experimental Biology annual meeting in Orlando, Florida.

Rodriguez AL, **Cunningham DL** (2019). Estimating body mass in modern humans using measurements of the distal humerus. Poster presented at the Texas State University Honors College Undergraduate Research Conference.

Saavedra R, **Cunningham DL** (2019). Femoral length estimation from fragmentary remains. Poster presented at the Texas State University Honors College Undergraduate Research Conference. (This poster won third place in this university-wide conference.)

Gleiber DS, **Cunningham DL,** Wescott DJ (2019). Variation in the trabecular structure of the proximal tibia between obese and non-obese individuals. Poster presented at the 88th annual meeting of the American Association of Physical Anthropologists in Cleveland, Ohio (Abstract: American Journal of Physical Anthropology Supplement 68, p. 86).

PROFESSIONAL PRESENTATIONS (cont'd):

Gleiber DS, **Cunningham, DL,** Wescott DJ, Russell CK, Sylvester AD (2019). Variation in the trabecular structure of the proximal tibia between obese and non-obese individuals using cubic volumes of interest and sliding semilandmarks. Paper presented at the Tomography for Scientific Advancement (ToScA) conference in Gainesville, Florida.

Gleiber DS, **Cunningham DL,** Wescott DJ (2018). Variation in the trabecular structure of the 4th lumbar vertebra in obese and non-obese individuals. Poster presented at annual meeting of Texas Association of Biological Anthropologists in San Marcos, Texas.

Cunningham DL, Rogers MV, Wescott DJ, McCarthy RC (2018). Estimating body mass in *Homo erectus* using the talus. Poster presented at the 87th annual meeting of the American Association of Physical Anthropologists in Austin, Texas (Abstract: American Journal of Physical Anthropology Supplement 66, p. 58).

Gleiber DS, **Cunningham DL,** & Wescott DJ (2018). Variation in the trabecular structure of the 4th lumbar vertebra in obese and non-obese individuals. Poster presented at the 87th annual meeting of the American Association of Physical Anthropologists in Austin, Texas (Abstract: American Journal of Physical Anthropology Supplement 66, p. 99).

Cunningham DL, Wescott DJ, Gleiber DS, Christensen AM, & Smith MA (2017). The use of industrial CT in forensic anthropology. Paper presented at the Tomography for Scientific Advancement (ToScA) conference in Austin, Texas.

Gleiber DS, **Cunningham DL**, Skipper CE, Wescott DJ (2017). Variation in the trabecular structure of the proximal tibia between obese and non-obese individuals. Poster presented at the Tomography for Scientific Advancement (ToScA) conference in Austin, Texas.

Christensen AM, Smith MA, Wescott DJ, Gleiber DS, **Cunningham DL** (2017). The use of industrial computed tomography (CT) in forensic anthropology. Poster presented at the 69th annual meeting of the American Association of Forensic Sciences in New Orleans, Louisiana (Abstract: Proceedings of the American Academy of Forensic Sciences, Volume 23, p. 216).

Gleiber DS, Skipper CE, **Cunningham DL**, Wescott DJ (2016). Variation in the trabecular structure of the proximal tibia between obese and non-obese females. Poster presented at 85th annual meeting of American Association of Physical Anthropologists in Atlanta, Georgia (Abstract: American Journal of Physical Anthropology Supplement 62, pp. 155-156).

Veltri MF, Lewman JR, **Cunningham DL**, Wescott DJ (2016). New approaches to measuring diffuse idiopathic skeletal hyperostosis. Poster presented at 85th annual meeting of American Association of Physical Anthropologists in Atlanta, Georgia in the Committee on Diversity Undergraduate Research Symposium.

Lewman JR, Veltri MF, **Cunningham DL**, Wescott DJ (2016). The effects of obesity and diabetes on diffuse idiopathic skeletal hyperostosis. Poster presented at 85th annual meeting of American Association of Physical Anthropologists in Atlanta, Georgia in the Committee on Diversity Undergraduate Research Symposium.

Cunningham DL, Graves RR, Wescott DJ, McCarthy RC (2014). New estimates of body mass in KNM-WT 15000. Poster presented at 83rd annual meeting of American Association of Physical Anthropologists in Calgary, Alberta, Canada (Abstract: American Journal of Physical Anthropology Supplement 58, p. 100-101).

Cunningham DL, Wescott DJ, Graves RR, McCarthy RC (2013). Skeletal and body mass growth patterns in KNM-WT 15000. Paper presented at 7th annual meeting of Texas Association of Biological Anthropologists in Austin, TX.

PROFESSIONAL PRESENTATIONS (cont'd):

Wescott DJ & **Cunningham DL** (2013). Temporal changes in Arikara femoral torsion. Poster presented at 82nd annual meeting of American Association of Physical Anthropologists in Knoxville, TN. (Abstract: American Journal of Physical Anthropology Supplement 56, p. 289)

Cole III TM, Cole MS, & **Cunningham DL** (2013). Exploring multivariate analysis of shape in commingled fossil assemblages. Poster presented at 82nd annual meeting of American Association of Physical Anthropologists in Knoxville, TN. (Abstract: American Journal of Physical Anthropology Supplement 56, p. 100)

McCarthy RC, Graves RR, Lupo AC, **Cunningham DL**, & Wescott DJ (2012). Encephalization in Pleistocene *Homo* revisited. Poster presented at 81st annual meeting of American Association of Physical Anthropologists in Portland, OR. (Abstract: American Journal of Physical Anthropology Supplement 54, p. 208).

Cole III TM, **Cunningham DL,** Grine FE, Kramer A, & Wolpoff MH (2011). Dental metric variation in *Homo erectus* sensu lato. Paper presented at 80th annual meeting of American Association of Physical Anthropologists in Minneapolis, MN. (Abstract: American Journal of Physical Anthropology Supplement 52, p. 110).

Cole III TM & **Cunningham DL** (2010). Spatial ranks, depth functions, and scale curves as tools for testing the single-species hypothesis. Poster presented at 79th annual meeting of American Association of Physical Anthropologists in Albuquerque, NM. (Abstract: American Journal of Physical Anthropology Supplement 50, p. 83).

Williams FL, Amaral LQ, & **Cunningham DL** (2010). Carrying the load: Is there evidence for infant transport in the human fossil record? Poster presented at 79th annual meeting of American Association of Physical Anthropologists in Albuquerque, NM. (Abstract: American Journal of Physical Anthropology Supplement 50, pp. 243-244).

Graves RR, McCarthy RC, Lupo AC, Wescott DJ, & **Cunningham DL** (2010). New estimates of stature and body mass for KNM-WT 15000. Paper presented at 79th annual meeting of American Association of Physical Anthropologists in Albuquerque, NM. (Abstract: American Journal of Physical Anthropology Supplement 50, p. 115). Also see Science 328 (5977):413.

Cunningham DL, Cole III TM & Ward CV (2008). Postcranial proportional variation in *Australopithecus afarensis* and *A. africanus.* Poster presented at 77th annual meeting of American Association of Physical Anthropologists in Columbus, Ohio. (Abstract: American Journal of Physical Anthropology Supplement 46, p. 85).

Cho MH, Lankford DM, Wescott DJ & **Cunningham DL** (2008). Exploring the relationships between epistemic beliefs and nature of science in a college biology course. Poster presented at annual meeting of National Association for Research in Science Teaching in Baltimore, Maryland. (Abstract: NARST Annual International Conference Proceedings, p. 115).

Wescott DJ, **Cunningham DL** & Ubelaker DH (2007). Growth and development of femur shape, size, and strength among three Native American groups. Poster presented at 76th annual meeting of American Association of Physical Anthropologists in Philadelphia, Pennsylvania in symposium entitled "Biological Variation and Evolutionary Dynamics in Ancient Populations of the Americas" (Abstract: American Journal of Physical Anthropology, Supplement 44, p. 247).

Cunningham DL, Cole III TM, Jungers WL, Ward CV, & Wescott DJ (2005). Patterns of postcranial and body mass dimorphism in hominoids. Paper presented at the 74th annual meeting of the American Association of Physical Anthropologists in Milwaukee, Wisconsin in symposium entitled "Sexual

Dimorphism: Patterns, Evolution, and Variation" (Abstract: American Journal of Physical Anthropology, Supplement 40, p. 90).

PROFESSIONAL PRESENTATIONS (cont'd):

Cunningham DL, Cole III TM, Ward CV, & Wescott DJ (2004). Sexual dimorphism at the A.L. 333 site. Paper presented at the 73rd annual meeting of American Association of Physical Anthropologists in Tampa, Florida (Abstract: American Journal of Physical Anthropology, Supplement 38, pp. 80-81).

Cole III TM & **Cunningham DL** (2004). Assessing variation within commingled hominid fossil assemblages using nonparametric density estimation. Poster presented at the 73rd annual meeting of American Association of Physical Anthropologists in Tampa, Florida (Abstract: American Journal of Physical Anthropology, Supplement 38, p. 77).

Cunningham DL & Wescott DJ (2003). Addressing student misconceptions about human evolution. Paper presented at 72nd annual meeting of American Association of Physical Anthropologists in Tempe, Arizona in symposium entitled "Teaching Physical Anthropology: Strategies for Dealing with Controversial Topics" (Abstract: American Journal of Physical Anthropology, Supplement 36, pp. 81-82).

Cunningham DL & Jantz RL (2001). Craniometric relationships between Paleoamerican and Archaic Indian crania. Paper presented at 70th annual meeting of American Association of Physical Anthropologists in Kansas City, Missouri (Abstract: American Journal of Physical Anthropology, Supplement 32, p. 56).

Cunningham DL & Wescott DJ (2000). Within-group variation in the Asian Pleistocene: An assessment of the three Upper Cave crania. Poster presented at 69th annual meeting of American Association of Physical Anthropologists in San Antonio, Texas (Abstract: American Journal of Physical Anthropology, Supplement 30, p. 132).

Cunningham DL (1999). Weidenreich revisited: Morphology of the Upper Cave crania. Paper presented at 68th annual meeting of American Association of Physical Anthropologists in Columbus, Ohio (Abstract: American Journal of Physical Anthropology, Supplement 28, p. 113).

Wescott DJ & **Cunningham DL** (1999). Asymmetry in Arikara long bones. Poster presented at 68th annual meeting of American Association of Physical Anthropologists in Columbus, Ohio (Abstract: American Journal of Physical Anthropology, Supplement 28, p. 275).

Cunningham DL (1999). The disappearance of "Peking Man" - Unraveling a wartime mystery. Paper presented for Last Word Society at 51st annual meeting of American Academy of Forensic Sciences in Orlando, Florida (Abstract: Proceedings of the American Academy of Forensic Sciences, Volume 5, p. 296).

Cunningham DL (Cornell) & Jantz RL (1998). The morphometric relationship of Upper Cave 101 to modern *Homo sapiens:* An unweighted analysis. Poster presented at 67th annual meeting of American Association of Physical Anthropologists in Salt Lake City, Utah (Abstract: American Journal of Physical Anthropology, Supplement 24, p. 108).

Cunningham DL (Cornell) & Jantz RL (1997). The morphometric relationship of Upper Cave 101 to modern *Homo sapiens*. Poster presented at 66th annual meeting of American Association of Physical Anthropologists in St. Louis, Missouri (Abstract: American Journal of Physical Anthropology, Supplement 26, p. 95).

TECHNICAL TRAINING / TEACHING & FACULTY DEVELOPMENT:

- BookCats: The Book Club for TXST Non-tenure Line Faculty (read and discussed "The Spark of Learning" by S.R. Cavanagh), Texas State University, 2021
- "Using Social Media as a Tool to Advance Your Professional Agenda," Texas State University, November 2021
- "Alkek One: Learn the Magic Behind the Green Screen," Texas State University, April 2021
- "Alkek One: Introduction to Video Editing," Texas State University, April 2021
- "Birds of a Feather: Anthropology," Texas State University, August 2020
- "One-Time Design: Measure Twice, Cut Once," Texas State University, July 2020
- "Tips & Tricks for Remote Teaching in Biological Anthropology," American Association of Physical Anthropologists, June 2020
- "History/Anthropology Canvas Training," Texas State University, June 2020
- "Camp Canvas Essentials," Texas State University, May 2020
- "Focus on Depth, Not Breadth: Modifying Content for Remote Course Delivery," Texas State University, March 2020
- "Managing Student Workloads for Remote Course Delivery," Texas State University, March 2020
- "Adapting Learning Activities for Remote Course Delivery," Texas State University, March 2020
- "Alternatives to Lectures for Low-Tech Remote Course Delivery," Texas State University, March 2020
- "Establishing Communication Guidelines for Remote Course Delivery," Texas State University, March 2020
- "Create an Active Learning Environment," Learning Experience Design Workshop, Texas State University, March 2018
- "Activate Student Learning," Learning Experience Design Workshop, Texas State University, February 2018
- "Avizo Introductory Workshop Including Porosity Analysis," Tomography for Scientific Advancement (ToScA) conference, University of Texas, June 2017
- "VGSTUDIO MAX 3.0 Workshop," Tomography for Scientific Advancement (ToScA) conference, University of Texas, June 2017
- "Advanced Computed Tomography (40 hours)," North Star Imaging, September 15-19, 2014
- "Digital Radiography and Basic Computed Tomography (40 hours)," North Star Imaging, June 16-20, 2014
- Presenter, Medical Education Journal Club, University of Miami Miller School of Medicine at Florida Atlantic University, 2008 & 2010
- "Writing Multiple Choice Exam Questions," Faculty Development Program, University of Miami Miller School of Medicine at Florida Atlantic University, 2008
- "Teaching Critical Thinking Using Active Learning," The Conference on Advancing Teaching and Learning, Texas Tech University, 2005
- "Creating a Conflict-Free Classroom," TEACH Workshop, Teaching, Learning, & Technology Center, Texas Tech University, 2004
- Teaching Renewal Conferences (10th Annual [2000] and 13th Annual [2003]), Program for Excellence in Teaching, University of Missouri-Columbia
- "Teaching Techniques for New Teacher's Assistants" and "Fostering Critical Thinking in the Classroom," Program for Excellence in Teaching, University of Missouri-Columbia, 1999

COURSES TAUGHT:

- Seminar on Race in Biological Anthropology (ANTH 3331J), Texas State University, Spring 2022
- Seminar in Biological Anthropology (ANTH 5312), Texas State University, Spring 2019, 2020, 2021 & 2022
- Human Structure & Function (ANTH 3375D/G), Texas State University, Spring 2018, 2019, 2020 & 2021
- Evolutionary Anatomy (ANTH 3358), Texas State University, Fall 2017, 2018, 2019, 2020 & 2021
- Human Osteology (ANTH 3381), Texas State University, Fall 2014 & Spring 2017
- Gross Human Anatomy (ANTH 5373E), Texas State University, Spring 2014, 2016, & 2018
- Human & Primate Origins (ANTH 3340/5340), Texas State University, Fall 2013, 2014, 2016, 2017, 2018, 2019, 2020 & 2021
- History of Evolutionary Thought (ANTH 3307/5307), Texas State University, Fall 2012, 2015, 2017, 2018, 2019, 2020, 2021 & Spring 2017, 2018, 2019, 2020, 2021 & 2022
- Biological Anthropology (ANTH 2414), Texas State University, Fall 2012, Fall 2015, & Spring 2016
- Integrated Morphology 2 (PCB 6933), Florida Atlantic University, Summer 2009 & Summer 2011
    - Second course in two-part series
    - Lecture and gross lab covering evolutionary morphology and anatomy of back, limbs, head and neck
- Gross Human Anatomy (component of FBS 1-3 and Neuroanatomy), Charles E. Schmidt College of Medicine, Florida Atlantic University (2008 - 2009 taught in University of Miami's Miller School of Medicine's curriculum), Fall 2008 – present
    - Co-taught with two other instructors
    - Lecture topics: Shoulder & Axilla; Arm & Forearm; Hand, Wrist, & Joints of the Upper Limb; Pelvis & Pelvic Diaphragm; Gluteal Region & Posterior Thigh; Thigh and Leg; Foot & Joints of the Lower Limb
    - Also present during lab portion of entire course
- Facilitator for Problem-Based Learning groups (component of FBS 1-3), Charles E. Schmidt College of Medicine, Florida Atlantic University (2008 – 2009 taught in University of Miami's Miller School of Medicine's curriculum), Fall 2008 - present
- Elementary Anatomy (PAS 2201), University of Missouri's School of Medicine, Fall 2007 & Winter 2008
    - Co-taught with two other instructors
- Elementary Anatomy Laboratory (PAS 2203), University of Missouri's School of Medicine, Fall 2007 & Winter 2008
- Gross Human Anatomy (PAS 4222), University of Missouri's School of Medicine, Summer 2007
    - Second half of course only: head, neck, thorax, abdomen, pelvis, and lower limb
- Human Origins (ANTH 4500/7500), Department of Anthropology, University of Missouri-Columbia, Winter 2007
- Introduction to Biological Anthropology (ANTH 2050), Department of Anthropology, University of Missouri-Columbia, Fall 2006 & Winter 2007
- Seminar in Biological Anthropology (ANTH 8587), Department of Anthropology, University of Missouri-Columbia, Fall 2006
- Human Evolution/Origins (ANTH 3310/5311), Department of Sociology, Anthropology, and Social Work, Texas Tech University, Spring 2005

COURSES TAUGHT (cont'd):

- Physical Anthropology (ANTH 2300), Department of Sociology, Anthropology, and Social Work, Texas Tech University, Fall 2004 & Spring 2005
- General Anthropology (ANTH 1), Department of Anthropology, University of Missouri-Columbia, Winter 2003 & Winter 2004
- General Biology Laboratory (BIO 2), Division of Biological Sciences, University of Missouri-Columbia, Fall 2002 – Fall 2003
- Gross Human Anatomy Laboratory (ANAT 222), University of Missouri's School of Medicine, Summer 1999 & Summer 2001
- Introduction to Biological Anthropology Laboratory (ANTH 150/151), Department of Anthropology, University of Missouri-Columbia, Fall 1999 – Winter 2001

INVITED PRESENTATIONS:

2021 "Body size in *Homo erectus*"
- Department of Anthropology brown bag speaker series, virtual, February 26
- Texas State University

2018 "How did the dead live? Using industrial CT in biological anthropology"
- North Star Imaging Technical Symposium: "See Beyond the Surface" in St. Michael, Minnesota, May 22-23

2013 "Temporal changes in Arikara femoral torsion"
- Symposium entitled "From Paleoamericans to Recent Americans: A Celebration of Richard L. Jantz's Contribution to Biological Anthropology" at 83rd annual meeting of the American Association of Physical Anthropologists, Knoxville, Tennessee

2013 "Exploring multivariate analysis of shape in commingled fossil assemblages"
- Symposium entitled "Concepts and Realities – Humans in Time and Space: Papers in Honor of Fred Hines Smith" at 83rd annual meeting of the American Association of Physical Anthropologists, Knoxville, Tennessee

2009 "Teaching evolution: strategies for overcoming common pitfalls"
- Darwin Day events organized by the Anthropology Graduate Student Union at Florida Atlantic University

2007 "Growth and development of femur shape, size, and strength among three Native American groups"
- Symposium entitled "Biological Variation and Evolutionary Dynamics in Ancient Populations of the Americas" at 76th annual meeting of the American Association of Physical Anthropologists, Philadelphia, Pennsylvania

2006 "Human origins: what we know"
- The Natural History Film and Lecture Series, Smithsonian Institution, Washington, DC

INVITED PRESENTATIONS (cont'd):

2005 "Patterns of postcranial variation in hominoids"
- Symposium entitled "Sexual Dimorphism: Patterns, Evolution, and Variation" at 74th annual meeting of the American Association of Physical Anthropologists, Milwaukee, Wisconsin

2003 "Addressing student misconceptions about human evolution"
- Symposium entitled "Teaching Physical Anthropology: Strategies for Dealing with Controversial Topics" at 72nd annual meeting of American Association of Physical Anthropologists, Tempe, Arizona

1999 Panel member for "Creation/Evolution Debate"
- Philosophy Club, University of Missouri-Columbia

1998 Lecture on "Teaching Evolution" at Knox County Schools Science Department's Science Smorgasbord
- Knoxville, Tennessee

UNIVERSITY / COLLEGE / DEPARTMENTAL SERVICE:

2021 – current Social media manager for the Forensic Anthropology Center at Texas State (FACTS)

2022 – current Master's thesis committee member for Paige Jackson
- Department of Anthropology, Texas State University

2022 – current Ph.D. committee member for Carson Black
- Department of Anthropology, Texas State University

2022 – current Ph.D. committee member for Katie Gerstner
- Department of Anthropology, Texas State University

2022 – current Master's thesis committee member for Jessica Burden
- Department of Anthropology, Texas State University

2021 – current Ph.D. committee member for Shelby Garza
- Department of Anthropology, Texas State University

2020 – current Master's thesis committee member for Emma Giacomello
- Department of Anthropology, Texas State University

2020 – current Ph.D. committee member for Kaelyn Dobson
- Department of Anthropology, Texas State University

2020 – 2021 Master's thesis committee member for Alexis Baide
- "Exploring the effects of diabetes mellitus on isotopic ratios"
- Department of Anthropology, Texas State University

2019 – current Ph.D. committee member for Devora Gleiber
- Department of Anthropology, Texas State University

Fall, 2019 Undergraduate Honors Thesis supervisor for Hannah Munsch
- "The effects of secondary level evolution education on undergraduate perceptions of science"
- Honors College, Texas State University

UNIVERSITY / COLLEGE / DEPARTMENTAL SERVICE (cont'd):

2017 – 2019 Master's thesis committee member for Jacob M. Cook
- "Exploring age related changes in cortical bone in individuals over 50 using radiographs"
- Department of Anthropology, Texas State University

2015 - 2017 Master's thesis committee member for Devora Gleiber
- "The effect of disuse on bone structure of mobility impaired individuals"
- Department of Anthropology, Texas State University

2015 – 2017 Master's thesis committee member for Audrey Schaefer
- "Quantitative age-at-death estimation: a three-dimensional morphological analysis of the sternal extremity of the rib"
- Department of Anthropology, Texas State University

2015 – 2018 Master's thesis committee member for Jessica Galea
- "A test of the relationship of pelvic scars and pelvic instability through the microarchitecture of the pubic symphysis"
- Department of Anthropology, Texas State University

2013 Master's thesis committee member for Jaydee J. Turner
- "A geometric morphometric analysis of the navicular bone in humans, chimpanzees, baboons, and *Homo habilis* (OH 8)"
- Department of Anthropology, Texas State University

2011 Co-Chair of Faculty Assembly
- Charles E. Schmidt College of Medicine, Florida Atlantic University

2011 Parking Violation Appeals Board; LGBTQA Resource Center Student Advisory Committee
- Florida Atlantic University

2011 Master's thesis committee member for Thomas A. Divito
- "The role of ontogeny for reconstructing hominid phylogeny"
- Department of Anthropology, Florida Atlantic University

2010 – 2011 Faculty Advisor for Association of Biological and Biomedical Students (ABBS)
- Charles E. Schmidt College of Medicine & Charles E. Schmidt College of Science, Florida Atlantic University

2010 - 2011 Educational Program for the M.D. Degree Committee (LCME Self-Study Committee); Admissions Committee; Curriculum Committee (including Academic Technology Subcommittee); Curriculum Advisory Committee (formerly Vice Dean's Advisory Group); various Search Committees
- Charles E. Schmidt College of Medicine, Florida Atlantic University

2010 – 2011 Secretary of Faculty Assembly
- Charles E. Schmidt College of Medicine, Florida Atlantic University

UNIVERSITY / COLLEGE / DEPARTMENTAL SERVICE (cont'd):

2009 - 2010 — Master's thesis committee member for Amy C. Lupo
- "The timing of growth spurts in Neanderthals"
- Department of Anthropology, Florida Atlantic University

2009 - 2010 — Admissions Committee
- University of Miami's Miller School of Medicine's regional campus at Florida Atlantic University

AWARDS, SCHOLARSHIPS, AND HONORS:

2021 — College of Liberal Arts Achievement Award for Excellence in Scholarly/ Creative Activity
- Texas State University

2019 — Third place, University Honors College Undergraduate Research Conference
- Texas State University
- Paper: "Femoral length estimation from fragmentary remains" (Saavedra R & Cunningham DL)

2001 — Third place, Biological Sciences, Research and Creative Activities Forum
- University of Missouri-Columbia
- Paper: "Craniometric relationships between Paleoamerican and Archaic Indian crania"

2000 — P.E.O. Scholar Award recipient
- Competitive Academic Fellowship ($7,000) from international, philanthropic women's organization

2000 — First place, Anthropology Leaders' Graduate Student Paper Competition
- University of Missouri-Columbia
- Paper: "The morphometric relationship of Upper Cave 101 and 103 to modern *Homo sapiens*"

1998 — Lambda Alpha member (National Collegiate Honors Society for Anthropology), Alpha of Tennessee Chapter
- University of Tennessee, Knoxville

1996 — Anthropology Department graduate scholarship recipient
- University of Tennessee, Knoxville

PROFESSIONAL SERVICE / OTHER PROFESSIONAL EXPERIENCE:

2018 — Principal coordinator for *Texas Association of Biological Anthropologists (TABA)* meeting
- Texas State University, November 9-10
- Organized entire conference including paper and poster sessions

2009 – present — Peer reviewer for *Evolution: Education and Outreach*, *Anatomical Record*, *American Journal of Physical Anthropology*, and *Science and Education*

PROFESSIONAL SERVICE / OTHER PROFESSIONAL EXPERIENCE (cont'd):

2008, 2009 — Presenter at annual *Teaching Outreach Program* held at the American Association of Physical Anthropologists annual meeting
- Columbus, Ohio, 4/12/08 & Chicago, Illinois, 4/4/09
- Presented strategies to high school teachers for combating non-scientific challenges to the teaching of biological evolution

2002 — Presenter at 1st *Teaching Physical Anthropology Symposium* held at the American Association of Physical Anthropologists annual meeting
- Buffalo, New York, April 11
- Reported on what research says about teaching and learning, and on strategies to incorporate cooperative learning into an introductory physical anthropology class

2001 – 2003 — Publicity Officer for Anthropology Students Association
- University of Missouri-Columbia

2000 — Principal coordinator for 7th annual *Midwest Bioarcheaology and Forensic Anthropology Association (BARFAA)* meeting
- University of Missouri-Columbia, October 20-22
- Organized entire conference including paper and poster sessions

1999 - 2000 — Graduate Professional Council member
- University of Missouri-Columbia
- Elected representative of the Anthropology Students Association

1998 - 1999 — Research Assistant (RA) to Dr. Carol Ward
- University of Missouri-Columbia
- Responsible for inventorying and scanning photos for publication, and for analysis of *A. anamensis* dentition

1997 — Graduate Student Committee member, Anthropology Department
- University of Tennessee, Knoxville

1996 - 1998 — Docent and Contact Person for "Lucy and Her Relatives: The Emergence of Humans" exhibit, Frank H. McClung Museum
- University of Tennessee, Knoxville
- Responsible for presentations to K-12 students and arranging docents for school groups

1991 — Pi Gamma Mu member (International Honor Society in Social Sciences)
- Appalachian State University

1990 — Student in summer archaeological field school
- Appalachian State University, Boone, North Carolina

COMMUNITY SERVICE:

2014	Judge for the Austin Energy Regional Science Fair, Travis Elementary, San Marcos, Texas
2009	Judge for the Alliance for Science High School Essay contest • Topic: "In Darwin's footsteps: Carrying forward a magnificent tradition"
2000	Judge for annual science fair, Hatton-McCreedie Elementary School, Hatton, Missouri
2000	Arranged lab exercise and hosted field trip for Hickman High School's Anthropology class to the Physical Anthropology Lab • University of Missouri-Columbia
1999	Participant in medicolegal investigation of buried human remains • Principal investigator: Dr. Sam Stout

MEMBERSHIPS AND AFFILIATIONS:

- Texas Association of Biological Anthropologists (Student Prize Committee Chair 2023)
- Biological Anthropology Women's Mentoring Network (steering committee member 2021-current)
- American Association of Physical Anthropologists
- American Association of Physical Anthropologists Education Committee
- American Women In Science, University of Missouri chapter (board member 1999-2002)

PROFESSIONAL INTERESTS:

Paleoanthropology: evolution of East and South African hominins; species boundaries in the fossil record; patterns of sexual dimorphism in *Australopithecus*; paleobiology of *Homo erectus*; theoretical species concepts; primate evolution

Skeletal Biology: bone biomechanics; morphometry; osteology

General: human anatomy; evolution and "creation science" issues; teaching methods; statistics

REFERENCES:

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