

CURRICULUM VITAE OF LIBBY WINDRED COWGILL

Current affiliation and contact information:

Associate Professor
Department of Anthropology
University of Missouri, Columbia
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Columbia, MO 65211-1440

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RESEARCH INTERESTS:

Human variation, functional morphology, growth and development, Late Pleistocene human evolution, climatic effects on the human body proportions

EDUCATION:

- 2008 *Doctor of Philosophy, Anthropology*
WASHINGTON UNIVERSITY IN ST. LOUIS
Dissertation: "The Ontogeny of Late Pleistocene Human Postcranial Robusticity"
Advisor: **Erik Trinkaus**
Committee: Richard J. Smith, Glenn Conroy, Herman Pontzer, Christopher Ruff, Charles Hildebolt
- 2003 *M.A., Anthropology*
WASHINGTON UNIVERSITY IN ST. LOUIS
Advisor: **Erik Trinkaus**
- 2001 *B.A., with highest distinction, Anthropology*
UNIVERSITY OF CALIFORNIA, BERKELEY
Advisor: **Tim D. White**

ACADEMIC POSITIONS:

- 2017- UNIVERSITY OF MISSOURI, COLUMBIA
Present Associate Professor, Department of Anthropology
- 2011- UNIVERSITY OF MISSOURI, COLUMBIA
2017 Assistant Professor, Department of Anthropology
- 2008- UNIVERSITY OF CENTRAL FLORIDA
2010 Assistant Professor, Department of Anthropology

RESEARCH:

JOURNAL ARTICLES:

- In prep **Cowgill LW**, Cho EO. The development of humeral strength during growth: play, practice, and childhood activity patterns.
- 2023 Yim A-D, **Cowgill LW**, Katz DC, Roseman CC. Variation in ontogenetic trajectories of limb dimensions is attributable to both climatic effects and neutral evolution. *Journal of Human Evolution*.
- 2023 **Cowgill LW**, Harrington L, MacKinnon M, Kurki H. Gains in Relative Cortical Area during Growth and their relationship to Nutrition, Body Size, and Physical Activity. *American Journal of Biological Anthropology*.
- 2022 HK, Holland S, MacKinnon M, **Cowgill LW**, Osipov B, Harrington L. Appositional Long Bone Growth: Implications for Measuring Cross Sectional Geometry. *American Journal of Biological Anthropology*.
- 2022 Cho EO, **Cowgill LW**, Middleton KM, Blomquist GE, Savoildi F, Tsoi J, Bornstein MM. The influence of climate and population structure on East Asian skeletal morphology. *Journal of Human Evolution*.
- 2021 **Cowgill LW**. Burn or why your treadmill hour never budges the scale. *American Journal of Biological Anthropology*. On-line.
- 2021 Johnston Rob'yn A, **Cowgill LW**, Lyman RL. Estimation of body mass in white-tailed deer (*Odocoileus virginianus*) using cross-sectional geometry of the metapodial. *Journal of Archaeological Science: Reports*. 37:102889.
- 2019 **Cowgill LW**, Johnston R. Biomechanical implications on the onset of walking. *Journal of Human Evolution*, 122: 133-145.
- 2017 Child S, **Cowgill LW**. Neck-Shaft Angle and Climate-Induced Body Proportions. *American Journal of Physical Anthropology*, 164:720–735.
- 2017 **Cowgill LW**. Juvenile body mass estimation: A methodological evaluation. *Journal of Human Evolution*, 115: 78-84.
- 2016 Trinkaus, E, Mednikova, MB and **Cowgill, LW**. The Appendicular Remains of the Kiik-Koba 2 Neandertal Infant. *PaleoAnthropology* 185: 210.
- 2016 Osipov B, Temple D, **Cowgill LW**, Harrington L, Weber A, Bazaliiskii V. Evidence for Genetic and Behavioral Adaptations in the Ontogeny of

- Prehistoric Hunter-Gatherer Limb Robusticity, *Quaternary International* 405: 134-146.
- 2014 Robbins Schug G, Gupta S, **Cowgill LW**, Sciulli P, Blatt SH. Panel regression formulas for estimating stature and body mass from immature human skeletons: a statistical approach without reference to specific age estimates. *Journal of Archaeological Science*. 40: 3076–3086.
- 2012 **Cowgill LW**, Mednikova MB, Buzhilova AP, Trinkaus E. The Sunghir 3 Upper Paleolithic Juvenile: Pathology versus Persistence in the Paleolithic *International Journal of Osteoarchaeology*. Early view: [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1099-1212/earlyview](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1099-1212/earlyview)
- 2012 **Cowgill LW**, Eleazer CD, Auerbach BM, Temple DH, Okazaki K. Developmental Variation in Ecogeographic Body Proportions. *American Journal of Physical Anthropology*. 148: 557-70
- 2012 Kindschuh SC, Dupras TL, **Cowgill LW**. Exploring Ancestral Variation of the Hyoid. *Journal of Forensic Sciences*. 57: 41-46
- 2011 **Cowgill LW**. One Year in Biological Anthropology: Species, Integration, and Boundaries in 2010. *American Anthropologist* 113: 213-221.
- 2011 Temple DH, Okazaki K, **Cowgill LW**. Ecogeographic principles are reflected in the ontogeny of limb proportions among Jomon foragers. *American Journal of Physical Anthropology* 145:415-425.
- 2010 Kindschuh SC, Dupras TL, **Cowgill LW**. Determination of Sex from the Hyoid Bone. *American Journal of Physical Anthropology* 143: 279-284.
- 2010 **Cowgill LW**, Warrener A, Pontzer H, Ocobock C. Waddling and toddling: the biomechanical effects of an immature gait. *American Journal of Physical Anthropology* 143: 52-61.
- 2010 **Cowgill LW**. The ontogeny of Holocene and Late Pleistocene human postcranial strength. *American Journal of Physical Anthropology* 141: 16-37.
- 2007 **Cowgill LW**. Humeral torsion revisited: a functional and ontogenetic model for populational variation. *American Journal of Physical Anthropology* 134: 472-480.
- 2007 **Cowgill LW**, Trinkaus E, & Zeder MA. Shanidar 10: A Middle Paleolithic Immature Distal Lower Limb from Shanidar Cave, Iraqi Kurdistan. *Journal of Human Evolution* 53: 213-223.
- 2007 **Cowgill LW** & LD Hager. Variation in the development of postcranial robusticity: an example from Çatalhöyük, Turkey. *International Journal of Osteoarchaeology* 17: 235–252.

PEER-REVIEWED BOOK CHAPTERS:

- In press **Cowgill LW**, Maddux S. Introduction. *Neandertal Skeletal Anatomy: Form, Function and Paleobiology*. Cambridge University Press.
- In press **Cowgill LW**, Churchill S, Holliday T. Pectoral Girdle. *Neandertal Skeletal Anatomy: Form, Function and Paleobiology*. Cambridge University Press.
- In press **Cowgill LW**. Growth and Development. *Neandertal Skeletal Anatomy: Form, Function and Paleobiology*. Cambridge University Press.
- 2017 **Cowgill LW**. Cross-sectional Geometry. In: Trevathan, W (ed.). *The International Encyclopedia of Biological Anthropology*.
- 2014 **Cowgill LW**. Femoral diaphyseal shape and mobility: an ontogenetic perspective. In: Marchi, D, Karlson, C (eds.). *Mobility: interpreting behavior from skeletal adaptations and environmental interactions*. Springer Press.
- 2014 **Cowgill LW**. Postcranial growth and development of immature skeletons from Point Hope, Alaska. In: Auerbach B, Cowgill LW, Hilton C (Eds.). *The foragers of Point Hope: the biology and archaeology of humans on the edge of the Alaskan arctic*. Cambridge Press.
- 2014 Hilton C, Auerbach B, **Cowgill LW**. Humans on the edge of the Alaskan Arctic. In: Auerbach B, Cowgill LW, Hilton C (Eds.). *The foragers of Point Hope: the biology and archaeology of humans on the edge of the Alaskan arctic*. Cambridge Press.
- 2010 **Cowgill LW**. The Spy III Immature Tibia: Neandertal or Neolithic? In: Semal P. & Hauzeur A. (Eds.). *Spy Cave: State of 120 Years of Pluridisciplinary Research on the Betche-aux-Rotches from Spy (Jemeppe-sur-Sambre, Province of Namur, Belgium)*. Brussels: Royal Belgian Institute of Natural Sciences & NESPOS Society.

PEER-REVIEWED BOOKS

- In press **Cowgill LW**, Maddux S (eds). *Neandertal Skeletal Anatomy: Form, Function and Paleobiology*. Cambridge University Press.
- 2014 Auerbach BM, **Cowgill LW**, Hilton CE (eds.). *The foragers of Point Hope: the biology and archaeology of humans on the edge of the Alaskan arctic*. Cambridge University Press.

EXTERNAL GRANTS:

- 2023 **National Science Foundation** (\$ 295,671)

- Title:* Validating Patterns of Bone Functional Adaptation in Living Humans
- 2021 **National Science Foundation (\$28,000)**
PI: Scott Maddux; *Co-PI:* Libby W. Cowgill, Cara Ocobock, Rachel Menegaz
Title: REU Supplement: Experimental testing of thermoregulatory principles: Re-evaluating ecogeographic rules in living humans
- 2020 **National Science Foundation (\$427,061)**
Co-PI: Scott Maddux, Cara Ocobock
Title: Experimental Testing of Thermoregulatory Principles: Re-evaluating Ecogeographic Rules in Living Humans
- 2019 **National Science Foundation Dissertation Improvement Grant (\$18,000)**
Co-PI: Elizabeth Okrutney Cho
Title: "Influence of climate and population structure on morphological variation of East Asian body form"
- 2018 **Wenner-Gren Foundation Dissertation Fieldwork Grant (\$20,000)**
Co-PI: Elizabeth Okrutney Cho
Title: "Influence of climate and population structure on morphological variation of East Asian body form"
- 2017 **National Science Foundation Grow Grant (\$17,000)**
Co-PI: Colleen Young
Title: Investigation of human skeletal remains of prehistoric Baja California Peninsula and inferences for modeling island evolution on mainland.
- 2006 **National Science Foundation Doctoral Dissertation Improvement Grant (\$8,685)**
Title: "The Ontogeny of Late Pleistocene Postcranial Robusticity"
- 2006 **Wenner-Gren Foundation Dissertation Fieldwork Grant (\$2,287)**
Title: "The Ontogeny of Late Pleistocene Postcranial Robusticity"
- 2005 **Leakey Foundation (\$11,542)**
Title: "The Ontogeny of Late Pleistocene Postcranial Robusticity"

INTERNAL GRANTS:

- 2020 **Research Council.** University of Missouri, Columbia. (\$9100)
- 2014 **SEC Faculty Travel Grant.** University of Missouri, Columbia (\$2500)
- 2014 **Faculty Incentive Grant.** University of Missouri, Columbia (\$1500)

2004 **Washington University Graduate Student Research Initiation**
(\$1500)

FELLOWSHIPS:

2005 **Graduate Research Symposium, Washington University**
First Place Award for: "Variation in the development of postcranial robusticity: An example from Çatalhöyük, Turkey"
Award: \$500

2004 **Spencer T. Olin Graduate Fellowship for Women**
Award: \$18,000 per year for four years

2001 **NSF Graduate Research Fellowship**
Award: \$21,000 per year for three years

HONORS AND AWARDS:

2020 **William T. Kemper Fellowship for Teaching Excellence**
\$15,000 annual fellowship honoring high quality educators at the University of Missouri

2019 **American Association of Physical Anthropology Student Mentorship Award**
Student nominated award for research mentorship.

2016 **Provost's Outstanding Junior Faculty Teaching Award.** University of Missouri, Columbia (\$2000)
Three junior faculty awards per year awarded for exceptional dedication in teaching and advising.

PRESENTATIONS & PUBLISHED ABSTRACTS:

2023 **Cowgill LW.** Developmental compartmentalization of time: Paleoanthropology across the human life span. Presented at the American Association of Anthropology meetings, Toronto, Canada.

2023 Reif A, Goodstein M, Ward L, Cho E, Ocobock C, **Cowgill L**, Maddux S. Variation in body composition in relation to evolutionary models of human thermoregulation. Presented at the 92nd American Association of Biological Anthropology meetings, Los Angeles, CA.

2023 Goodstein M, Reif A, Ward L, Cho E, Ocobock C, **Cowgill LW**, Maddux S. Quantifying human body surface area: A comparison of photogrammetry and CT scanning to estimation techniques. Presented at the 92nd American Association of Biological Anthropology meetings, Los Angeles, CA.

- 2023 Lauria K, **Cowgill LW**. Activity levels and the humeral carrying angle in recent human populations. Presented at the 92nd American Association of Biological Anthropology meetings, Los Angeles, CA.
- 2023 MacKinnon M, Kurki HK, **Cowgill LW**, Harrington L. Adaptive responses in pelvic morphology during growth in forager populations. Presented at the 92nd American Association of Biological Anthropology meetings, Los Angeles, CA.
- 2023 MacKinnon M, Kurki HK, **Cowgill LW**, and Harrington L. Canalization and Plasticity in the Pelvis: An ontogenetic study of pelvic morphological variation in forager populations. Presented at the 50th Canadian Association of Biological Anthropology meetings, Winnipeg, CA
- 2022 Holzhauser, CL, **Cowgill LW**. Untangling Tibia Retroversion: A functional and ontogenetic analysis. Presented at the 91st American Association of Biological Anthropology meetings, Denver, CO.
- 2022 Lauria KD, **Cowgill LW**. Trends of the Carrying Angle of the Elbow in a Modern Human Population. Presented at the 91st American Association of Biological Anthropology meetings, Denver, CO.
- 2022 Yim A, **Cowgill LW**, Katz DC, Roseman CC. Variation in ontogenetic trajectories of limb dimensions is the result of multiple evolutionary forces. Presented at the 91st American Association of Biological Anthropology meetings, Denver, CO.
- 2022 Cho EO, **Cowgill LW**, Blomquist GE. The impact of precipitation and humidity on East Asian skeletal variation. Presented at the 91st American Association of Biological Anthropology meetings, Denver, CO.
- 2022 **Cowgill LW**, Maddux SC, Ocobock C. Revisiting the thermoregulatory imperative in living humans. Presented at the 91st American Association of Biological Anthropology meetings, Denver, CO.
- 2021 Cho EO, **Cowgill LW**, Blomquist GE, Middleton KM. The influence of climate and population structure on East Asian skeletal morphology. Presented virtually.
- 2020 Cho EO, **Cowgill L**. Pelvic variation and sexual dimorphism in East Asian populations. Abstract only. To have been presented at the 88th American Association of Physical Anthropology meetings, Los Angeles, CA. (Meetings canceled).
- 2020 Kurki H, Harrington B, Osipov B, **Cowgill L**, MacKinnon M. Linear and cross-sectional asymmetry in the humerus during ontogeny. Abstract only. To have been presented at the 88th American Association of Physical Anthropology meetings, Los Angeles, CA. (Meetings Canceled)

- 2020 Yim AD, **Cowgill L**, Katz D, Roseman C. Climate predicts changes in growth trajectories in modern humans: a mixed model approach. Abstract only. To have been presented at the 88th American Association of Physical Anthropology meetings, Los Angeles, CA. (Meetings Canceled)
- 2019 **Cowgill LW**, Maddux SD, Athreya S, Wilman J. From Pedestrian to Cerebral in the Pleistocene: A Symposium in Honor of Erik Trinkaus. Symposium Organizer. Held at the 87th American Association of Physical Anthropology meetings, Cleveland, OH.
- 2019 **Cowgill LW**, Maddux SD. Scapular retroversion asymmetry and its correlates: New indicators of habitual upper limb activities. Presented at the 87th American Association of Physical Anthropology meetings, Cleveland, OH.
- 2019 Valleroy TR, **Cowgill LW**. Childhood Growth, Cessation, and Recovery: Links between lines of growth arrest and bone quantity. Presented at the 87th American Association of Physical Anthropology meetings, Cleveland, OH.
- 2019 Young CB, Arguelles JM, **Cowgill LW**. Analysis of an insular hunter-gathering population, the Pericú, and implications for the effects of isolation on hominin skeletal remains. Presented at the 87th American Association of Physical Anthropology meetings, Cleveland, OH.
- 2019 Johnston RA, **Cowgill LW**. Do structural equation models work to explain the factors shaping cortical bone morphology? Presented at the 87th American Association of Physical Anthropology meetings, Cleveland, OH.
- 2018 **Cowgill LW**. How large were Neandertal infants? Presented at the 8th European Society for the study of Human Evolution meetings, Faro, Portugal.
- 2018 Cho EO, Blomquist GE, **Cowgill LW**. Multivariate selection on human size and shape in East Asia. Presented at the 87th American Association of Physical Anthropology meetings, Austin, TX.
- 2018 Johnston RA, **Cowgill LW**. The effect of muscle mass and exercise on proximal femoral shaft strength in NHANES III runners. Presented at the 87th American Association of Physical Anthropology meetings, Austin, TX.
- 2018 Harrington L, Kurki, HK, Osipov B, MacKinnon, M, **Cowgill LW**. Modelling Appositional Long Bone Growth in Non-Sedentary Children:

- Implications for Cross-Sectional Geometry. Presented at the 87th American Association of Physical Anthropology meetings, Austin, TX.
- 2017 **Cowgill LW.** Teaching Evolution through cinema, the novel, and the news: Creating educated consumers of science. Presented at the 77th Society for Applied Anthropology meetings, Santa Fe, NM.
- 2017 Bain J, **Cowgill LW.** Rodeo Riders Revisited: A second look at Neandertal patterns of trauma. Presented at the 86th American Association of Physical Anthropology meetings, New Orleans, LA.
- 2017 Johnston RA, **Cowgill LW,** Paskoff T. Shape differences in the proximal femur of a cadaver sample based on different classifiers of obesity. Presented at the 86th American Association of Physical Anthropology meetings, New Orleans, LA.
- 2017 Osipov B, **Cowgill LW.** Chronological and Regional Variation in the Ontogeny of Humeral Asymmetry among Hunter-Gatherers. Presented at the 86th American Association of Physical Anthropology meetings, New Orleans, LA.
- 2016 Child SL, **Cowgill LW.** Femoral angles and cross-sectional geometry across subsistence economies. Presented at the 85th American Association of Physical Anthropology meetings, Atlanta, GA.
- 2016 Johnston RA, **Cowgill LW.** Obesity-related cross-sectional changes in the femur due to body proportion changes. Presented at the 85th American Association of Physical Anthropology meetings, Atlanta, GA.
- 2015 Child S, **Cowgill LW.** Neck-Shaft Angle and Climate-Induced Body Proportions. Presented at the 83rd American Association of Physical Anthropology meetings, St. Louis, MO.
- 2015 **Cowgill LW.** Juvenile body mass estimation: Challenges, issues, and new directions. Presented at the 83rd American Association of Physical Anthropology meetings, St. Louis, MO.
- 2015 Johnston RA, Child S, **Cowgill LW.** A multi-joint case of avascular necrosis in a prehistoric Native American female. Presented at the 83rd American Association of Physical Anthropology meetings, St. Louis, MO.
- 2014 **Cowgill LW,** Johnston R, Hamrick M, Robbins Schug G. Biomechanical perspectives on starvation and malnutrition in immature individuals. Presented at the 82nd American Association of Physical Anthropology meetings, Calgary, Canada.
- 2014 **Cowgill LW.** Practice and play in the Paleolithic: Thoughts on activity

- throughout human ontogeny. Presented at the 113th American Association of Anthropology meetings, Washington DC.
- 2013 **Cowgill LW**. A biological anthropology of children: Integrating natural selection, development, and behavior. Presented at the 81st American Association of Anthropology meetings, Chicago, IL.
- 2013 Giroux C, **Cowgill LW**. The influence of body mass on humeral strength: An ontogenetic perspective. Presented at the Eighty-first American Association of Physical Anthropology meetings, Knoxville, TN.
- 2013 Johnston R, **Cowgill LW**. Species concepts in anthropology and their relation to research interests. Presented at the Eighty-first American Association of Physical Anthropology meetings, Knoxville, TN.
- 2012 **Cowgill LW**, Johnston R. Biomechanical implications on the onset of walking. Presented at the Eightieth American Association of Physical Anthropology meetings, Portland, OR.
- 2012 Waller K, Yim R, **Cowgill LW**. The utility of anterior femoral curvature as an indicator of mobility. Presented at the Eightieth American Association of Physical Anthropology meetings, Portland, OR.
- 2012 Munizzi J, **Cowgill LW**, Dupras T, Schultz J. A comparative study of the occurrence of transverse radiopaque lines in archaic, early modern, and Holocene human populations. Presented at the Thirty-ninth Paleopathology Association meetings, Portland, OR.
- 2011 **Cowgill, LW**. Femoral diaphyseal shape and mobility: an ontogenetic perspective. Presented at the Seventy-ninth American Association of Physical Anthropology meetings, Minneapolis, MN.
- 2011 Eleazer CD, **Cowgill LW**, Auerbach BM. Ontogenetic variation in indigenous American body proportions. Presented at the Seventy-ninth American Association of Physical Anthropology meetings, Minneapolis, MN.
- 2011 Nagel A, **Cowgill LW**, Temple D. Growth velocity and percent of achieved adult growth of juveniles at the Campbell Site. Presented at the Seventy-ninth American Association of Physical Anthropology meetings, Minneapolis, Minnesota, MN.
- 2010 Eleazer CD, **Cowgill LW**, Auerbach BM. Variation in human body proportions during ontogeny. Presented at the Seventy-ninth American Association of Physical Anthropology meetings, Albuquerque, NM.
- 2010 Sparacello VS, Pearson OM, **Cowgill LW**. Growing up in the Gravettian: ontogeny of cross-sectional geometry in the lower limb. Presented at the

- Seventy-ninth American Association of Physical Anthropology meetings, Albuquerque, NM.
- 2009 **Cowgill LW.** One Hundred and Fifty Years of Neandertal Biology: Moving Toward a Synthesis. Presented at the 108th annual meetings for American Anthropological Association, Philadelphia, PA
- 2009 **Cowgill LW.** The development of humeral strength asymmetry during growth: play, practice, and childhood activity patterns. *American Journal of Physical Anthropology* 138: 161 (abstract). Presented at the Seventy-eighth American Association of Physical Anthropology meetings, Chicago, IL.
- 2009 Robbins G, **Cowgill LW.** Bayesian Approaches to Measuring Body Mass in Subadults from Kulubnarti, Grasshopper Pueblo, and Inamgaon. *American Journal of Physical Anthropology* 138: 342 (abstract). Presented at the Seventy-eighth American Association of Physical Anthropology meetings, Chicago, IL.
- 2009 Blackburn Wittman A, **Cowgill LW**, Pontzer H, Ocobock C. Waddling and toddling: biomechanical effects of an immature gait. *American Journal of Physical Anthropology* 138: 132 (abstract). Presented at the Seventy-eighth American Association of Physical Anthropology meetings, Chicago, IL.
- 2008 **Cowgill LW.** How to grow like a Neandertal: The ontogeny of Late Pleistocene postcranial robusticity. *American Journal of Physical Anthropology* 132: 92 (abstract). Presented at the Seventy-seventh American Association of Physical Anthropology meetings, Columbus, OH.
- 2007 **Cowgill LW.** Humeral retroversion revisited: a functional and ontogenetic model for populational variation. *American Journal of Physical Anthropology* 132: 92 (abstract). Presented at the Seventy-sixth American Association of Physical Anthropology meetings, Philadelphia, PA.
- 2007 Volpato V, Ruff C, Macchiarelli R, & **Cowgill LW.** Cross-sectional geometry of the Roc de Marsal juvenile Neandertal femur, determined using high-resolution microtomography. *American Journal of Physical Anthropology* 132: 240 (abstract). Presented at the Seventy-sixth American Association of Physical Anthropology meetings, Philadelphia, PA.
- 2006 **Cowgill LW.** Postcranial growth and development of immature skeletons from Point Hope, Alaska. *American Journal of Physical Anthropology* 129: 78 (abstract). Presented at the Seventy-fifth American Association of Physical Anthropology meetings, Anchorage, AL.
- 2006 Ruff CB, CS Larsen, **LW Cowgill** & LD Hager. Life in a Neolithic community: body size and activity levels at Çatalhöyük, Turkey. *American Journal of Physical Anthropology* 129: 155-156 (abstract).

Presented at the Seventy-fifth American Association of Physical Anthropology meetings, Anchorage, AL.

- 2005 **Cowgill LW & LD Hager.** Variation in the development of postcranial robusticity: an example from Çatalhöyük, Turkey. *American Journal of Physical Anthropology* 126: 89 (abstract). Presented at the Seventy-fourth American Association of Physical Anthropology meetings, Milwaukee, WI.

FIELDWORK EXPERIENCE:

Original Fossils Studied:

- FRANCE Musée de l'Homme: *La Ferrassie, Cro-Magnon, Abri Pataud, Le Figier*
Musée National de Préhistoire, Les Eyzies-de-Tayac: *Le Moustier, Roc de Marsal, La Magdeleine;*
Institut de Paleontologie Humaine: *Taforalt*
- GERMANY Museum für Ur-und Frühgeschichte Thüringen: *Ehringsdorf*
- SPAIN Museum of Prehistory: *Cova Negra*
- ITALY Balzi Rossi Museum: *Barma Grande*
Museo Civico d'Archeologia Ligure di Genova-Pegli: *Arene Candide*
University of Chieti: *Maritza*
Museo di Antropologia dell'Università, Naples: *Romanelli*
Museo di Antropologia et Etnologia, Florence: *Buco del Tasso*
- BELGIUM Royal Institute of Natural Science, Brussels: *Spy*
- ISRAEL Tel Aviv University: *Kebara, Amud, Qafzeh, Ohallo2*
- USA Peabody Museum, Harvard: *Skhul, El Wad*
Smithsonian, Washington DC: *Shanidar*

Skeletal Collections studied:

- USA Peabody Museum, Harvard: *Mistihalj, Yugoslavia*
University of Colorado, Boulder: *Kulubnarti, Sudan*
American Museum of Natural History: *Point Hope, Alaska*
Phoebe Hearst Museum, UC Berkeley: *California Amerindians*
Webb Museum at University of Kentucky, Lexington: *Indian Knoll*
- PORTUGAL Museu Nacional de História Natural, Lisboa: *Luis Lopes*
- SOUTH AFRICA University of Witwatersrand, Johannesburg: *Raymond Dart Collection*

- 2001-2002 **Çatalhöyük, Turkey**

- BACH Human Remains Team
Excavation and analysis of early Neolithic human remains
- 1999 **Archaeor Cultural Resource Management**
San Francisco, California
Human Remains Excavation Team
- 1999-2001 **Human Evolution Research Center**
University of California, Berkeley
Supervisor: Dr. Tim White
Database and cast collections manager, casting assistant
- 1999 **Presidio Archaeological Project**
University of California, Berkeley
Analysis and inventory of architectural and faunal remains
- 1999 **Death Scene Archaeology Short Course**
Mercyhearst College, Erie, PA
Field methods in the location and recovery of human remains
- 1998 **Forensic Anthropology Short Course**
University of Indianapolis, IN
Laboratory methods in the identification and analysis of human remains

TEACHING AND ADVISING:

COURSES TAUGHT:

Effective Online Teaching Practices. Required course for on-line teaching at MU.
Through the Association of University and College Educators (ACUE).
University of Missouri, Columbia.

Introduction to Anthropology. Lower-division undergraduate. University of Missouri,
Columbia.

Grant Writing for Graduate Students. Graduate, University of Missouri, Columbia
(2017).

Seminar in Quantitative Methods. Undergraduate and Graduate, University of
Missouri, Columbia (2016)

Human Functional Morphology. Upper-division undergraduate, University of Missouri,
Columbia (2013-present).

Seminar in Evolutionary Theory. Undergraduate and Graduate, University of Missouri,
Columbia (2012).

Introduction to Biological Anthropology. Lower division undergraduate, University of
Missouri, Columbia (2011-present).

Human Origins. Upper-division undergraduate, University of Missouri, Columbia
(2011-present).

Human Biology and Life History. Upper-division undergraduate, University of Missouri,
Columbia (2010-2012).

Human Skeletal ID and Analysis. Upper-division undergraduate, University of Missouri,
Columbia (2010-present).

Introduction to Primatology. Upper-division undergraduate, University of Central Florida (2009).

Human Biological Diversity. Upper-division undergraduate, University of Central Florida (2008).

Human Origins. Upper-division undergraduate. University of Central Florida (2008-2009).

Introduction to Four-field Anthropology. Lower-division undergraduate. University of Central Florida (2009).

Gross Anatomy and Embryology. Teaching and dissection assistant, medical students, Washington University, St. Louis (2007).

Introduction to Physical Anthropology. Lower-division undergraduate, Washington University, St. Louis (2005).

Forensic Anthropology. Lower-division undergraduate, University of California, Berkeley (2000-2001).

ADVISING AND COMMITTEES:

Undergraduate Research Mentorship Program:

Tessa Valleroy. "Childhood Growth, Cessation, and Recovery: Links between lines of growth arrest and bone quantity." Department of Anthropology, University of Missouri. Chair.

Undergraduate Honor Theses:

Greta Pragberg-White. Honor's Thesis, Department of Anthropology, University of Missouri.

Emily Raney. Honor's Thesis, Department of Anthropology, University of Missouri. Chair.

Catherine Graveman. Honor's Thesis, Department of Anthropology, University of Missouri. Chair.

Ashley Nagel. Honor's Thesis, Department of Anthropology, University of Missouri. Chair.

Michael Napolitano. Honor's Thesis, Department of Anthropology, University of Central Florida. Chair.

Jordon Munizzi. Honor's Thesis, Department of Anthropology, University of Central Florida. Chair.

Jessica Lowell. Honor's Thesis, Department of Anthropology, University of Central Florida. Committee Member.

Lindsey Turnbull. Honor's Thesis, Department of Anthropology, University of Central Florida. Committee Member.

Master's Thesis:

Rob'yn Johnston. Master's Thesis, Department of Anthropology, University of Missouri, Columbia. Chair.

Colleen Young. Master's Thesis, Department of Anthropology, University of Missouri, Columbia. Chair.

Kaleb Sellers. Master's Thesis, Department of Pathology and Anatomical Sciences, University of Missouri, Columbia. Member.

Lauren Downs. Master's Thesis, Department of Anthropology, University of Missouri, Columbia. Member.
Carolyn Giroux. Master's Thesis, Department of Anthropology, University of Missouri, Columbia. Chair.
Kelly Anderson. Master's Thesis, Department of Anthropology, University of Central Florida. Chair.
Sarah Kindschuh. Master's Thesis, Department of Anthropology, University of Central Florida. Committee Member.
Lauren Britton. Master's Thesis, Department of Anthropology, University of Central Florida. Committee Member.

Ph.D. Thesis:

Henry Tsai. Ph.D. Dissertation, Department of Anatomy and Pathology, University of Missouri, Columbia. Committee Member.
Kim Congdon. Ph.D. Dissertation, Department of Anatomy and Pathology, University of Missouri, Columbia. Committee Member.
Rob'yn Johnston. Ph.D. Dissertation, Department of Anthropology, University of Missouri, Columbia. Chair.
Courtney Eleazer. Ph.D. Dissertation, Department of Anthropology, University of Tennessee. External Committee Member.
Stephanie Childs. Ph.D. Dissertation, Department of Anthropology, University of Missouri, Columbia. Chair.
Rachel Munds. Ph.D. Dissertation, Department of Anthropology, University of Missouri, Columbia. Committee Member.
Kyle Waller. Ph.D. Dissertation, Department of Anthropology, University of Missouri, Columbia. Committee Member.
Sarah Lacy, Ph.D. Dissertation, Department of Anthropology, Washington University, St. Louis. External Committee Member.
Kate Trusler, Ph.D. Dissertation, Department of Anthropology, University of Missouri, Columbia. Committee Member.

PUBLIC ENGAGEMENT:

OUTREACH:

2019-2020	Presidential Engagement Fellow <i>One of 15 representatives of the University of Missouri system who gives research talks across the state to the community</i>
2013-2019	"Dinosaurs and Cavemen" <i>Public outreach exhibit, organized in concert with the department of Pathology and Anatomical Sciences, Rock Bridge High school.</i>

FILM, TELEVISION, AND OTHER MEDIA:

- 2022 “How Libby Cowgill's jobs as Mizzou professor and CrossFit trainer complement each other.” Columbia Daily Tribune. March.
- 2021 “Bones of a Teacher.” MIZZOU Magazine.
- 2019 “Babies” Netflix documentary, directed by Emma Webster. Three days of filming focused on my research on infant walking.
- 2017 “The Real Neanderthals” BBC/PBS documentary, directed by Vikram Jayanti, starring Andy Serkis. Three days of filming as expert on Neandertal biology, growth, and functional morphology
- 2017 “Water tubing accidents, table run-ins cause Neandertal-like injuries.” Science News: <https://www.sciencenews.org/article/water-tubing-accidents-table-run-ins-cause-neandertal-injuries>

INVITED PUBLIC LECTURES AND PANELS:

- 2022 *Moberly Correctional Center*. “Who were the Neandertals?” Spring.
- 2021 *Science on Screen, RagTag Theater*. “The Biological Basis of Human Achievement: Genes, potential, and the breeding of superior humans.” Spring.
- 2021 *Professor’s Perspective*. Five talks to incoming undergraduates. University of Missouri, Columbia. Summer
- 2021 *Supporting Future Research Leaders through the National Science Foundation Graduate Research Fellowship Application*. Celebration of Teaching, University of Missouri, Columbia. May.
- 2020 *A functional perspective on human growth and development: Children in play, movement, and evolution*. University of Tennessee, Knoxville. March.
- 2020 *Waddling, Wandering, and Weaponry: Using bone to reconstruct past behavior during growth*. Invited lecture for William Woods University. February.
- 2020 *Who were the Neandertals? Beyond Campus series*. St. Louis, MO. November.
- 2019 *Student Mentorship*. Leader of panel discussion on teaching at Wakonse, Conference of College Teaching.
- 2018 *Panelist on how to balance research and creative output*. A&S Research and Creative Activity Orientation Program for New and Junior Faculty. University of Missouri, Columbia.
- 2018 *Neandertals as people: Exploring lives of humans in the past*. Saturday Morning Science. October.

- 2018 *Neandertals as people: Exploring lives of humans in the past.* Beyond Campus series. Kansas City, MO. September.
- 2017 *Walking to Weaponry: What the biomechanics of children tell us about behavior in the past.* Invited lecture for the University of North Texas. July.
- 2017 *Teaching Evolution in the Midwest: Techniques and dialog.* SKEPTICON, 2017. Springfield, MO. To be presented November 2017
- 2017 Career Day, Center of Responsive Education (CORE), Columbia, MO. Public talk to 6th through 12th graders
- 2017 *Why you should care about teaching evolution in Missouri.* Given at SASHA Group meeting. University of Missouri, Columbia. April.
- 2016 *Fitness for the Ages: How to Lift Like a Neandertal.* Public talk, Saturday Morning Science, University of Missouri, Columbia. October.
- 2016 *Teaching evolution in the classroom: Effective techniques.* Given at SASHA Con 2016. University of Missouri, Columbia. April.
- 2015 *Teaching evolution and actually reaching people: How to talk about Intelligent Design in the classroom.* Given at SASHA Con 2015. University of Missouri, Columbia. March.
- 2014 *Neandertals: Their lives and story.* Café Science. Broadway Brewery. September.
- 2014 *Teaching evolution and actually reaching people: How to talk about Intelligent Design in the classroom.* SASHA Con 2014. University of Missouri, Columbia. March.
- 2014 *Mating Matters: A Valentine's Day Primer on Human Coupling.* Speaking of Culture Series, Orr Street Studios, Columbia, MO. February.
- 2013 *The World of the Neandertals.* Talk to 7th and 8th grade gifted students in the "Project Extra" program. Fulton Middle School. February.
- 2013 *Almost human: The enduring puzzle of the Neandertals.* Public talk, Taste of Arts and Sciences, University of Missouri, Columbia. March.
- 2012 *Walking, waddling, and wandering: Developmental and functional perspectives on walking and mobility.* Invited lecture for the University of Tennessee, Knoxville. February.
- 2011 *Why the First Human Children Weren't Anything Like Yours: Pathology and Play in the Pleistocene.* 20-20, Ragtag Cinema, Columbia, MO. May.

- 2011 *Neandertals- Where did they go and how do we know what we know?* Public talk, Saturday Morning Science, University of Missouri, Columbia. September.
- 2010 *Growing Pains: Ontogeny, activity patterns, and the Late Pleistocene fossil record.* Research seminar for New York University. February.
- 2010 *Growing Pains: Ontogeny, activity patterns, and the Late Pleistocene fossil record.* Research seminar for University of Missouri, Columbia. February.
- 2010 *Humeral Torsion Revisited: What baseball pitchers and injured infants tell us about shoulder morphology.* Invited lecture for the University of Tennessee, Knoxville. March.
- 2009 *Who were the Neandertals?* Invited public lecture at Science National Honor Society, Hagerty High School. October.
- 2009 *Growing Pains: Ontogeny, activity patterns, and the Late Pleistocene fossil record.* Research seminar for Florida Atlantic University. February.
- 2008 *The Neandertal Enigma: Our origins and closest evolutionary relatives.* Invited public lecture at Lion's Pride Science Café, Oviedo High School. December.
- 2008 *The Neandertal Enigma: Our origins and closest evolutionary relatives.* Invited public lecture for *Café Scientifique* at Stardust Video & Coffee in Winter Park. November.
- 2008 *Growing Pains: Ontogeny, activity patterns, and the Late Pleistocene fossil record.* Research seminar for Michigan State University. January.
- 2008 *Growing Pains: Ontogeny, activity patterns, and the Late Pleistocene fossil record.* Research seminar for University of Central Florida. January.
- 2008 *How a monk and his Peas changed the world.* Teaching seminar for University of Central Florida. January.

SERVICE:

DEPARTMENT AND UNIVERSITY COMMITTEES:

2020-Present	Faculty Council, Faculty Affairs Committee Member
2019-2020	Faculty Council, Student Affairs Committee Chair
2018-present	Director of Graduate Studies
2016-2017	Ombudsman
2016-2017	Awards
2016-present	Chair's Advisory
2014-present	On-line Education
2014-present	Space and Relocation Committee
2014-2017	Undergraduate Studies Committee
2013-2014	Lectures
2012	Curriculum, Instruction & Advising (CIA) Committee

2010-present	Cast Committee
2010-15, 16-Present	Graduate Studies Committee
2010-12	Student Assessment
2009	Committee for TIP (Teaching Incentive Program) Awards (UCF)
2008-09	Departmental Library Representative (UCF)
2008	Graduate Curriculum Committee (UCF)
2008	Undergraduate curriculum committee (UCF)
2008	Graduate Committee (UCF)

PROFESSIONAL COMMITTEES AND SERVICE:

2020-Present	Editorial board for the American Journal of Physical Anthropology
2016-2019	Associate Editor for the Journal of Human Evolution
2015	AAPA Local Arrangements Committee for St. Louis, MO
2011-Present	AAPA William S. Pollitzer Student Travel Award Committee
2011-Present	AAPA Student Prize Committee

PROFESSIONAL MEMBERSHIPS:

American Association of Physical Anthropologists
 American Association of Anthropologists
 Lambda Alpha, National Collegiate Honors Society for Anthropology
 Sigma Xi