

Kristi L. Lewton, Ph.D.
Curriculum vitae, July 2021

Department of Integrative Anatomical Sciences
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ACADEMIC APPOINTMENTS

- 2020-present **Associate Professor** of Clinical Integrative Anatomical Sciences, University of Southern California, Keck School of Medicine, Department of Integrative Anatomical Sciences (Primary appointment)
- 2019-present Adjunct Assistant Professor, Division of Biokinesiology & Physical Therapy, Herman Ostrow School of Dentistry, University of Southern California (Secondary appointment)
- 2017-present **Research Associate** in Mammalogy, Natural History Museum of Los Angeles County
- 2016-present Adjunct Assistant Professor, Department of Biological Sciences, University of Southern California (Secondary appointment)
- 2015-2020 **Assistant Professor** of Clinical Integrative Anatomical Sciences, University of Southern California, Keck School of Medicine, Department of Integrative Anatomical Sciences (Primary appointment)
- 2014-2015 **Assistant Professor**, Boston University School of Medicine, Department of Anatomy & Neurobiology
- 2014-2015 **Associate**, Harvard University, Department of Human Evolutionary Biology
- 2010-2013 **Preceptor** in Evolutionary Anatomy & Physiology, Harvard University, Department of Human Evolutionary Biology

EDUCATION

- 2010 Ph.D., Arizona State University, Anthropology
Dissertation title: "Locomotor function and the evolution of the primate pelvis."
- 2004 M.A., Arizona State University, Anthropology
Thesis title: "Epigenetic differences in articular surface area in captive and wild chimpanzees (*Pan troglodytes*)"
- 2002 B.A., University of Washington, Anthropology (With Distinction)

GRANTS

External

- 2020-2023 National Science Foundation Research Grant BCS-1944571 "Hindlimb cortical bone adaptation and locomotion in primates" (PI)
- 2013 American Association of Physical Anthropologists Professional Development Grant
- 2007 The Leakey Foundation Research Grant

- 2007 National Science Foundation Doctoral Dissertation Improvement Grant
BCS-0752575
- 2006 Sigma Xi Grant-in-Aid of Research

Internal

- 2021 Undergraduate Research Associates Program, USC
- 2020 Undergraduate Research Associates Program, USC
- 2019 Undergraduate Research Associates Program, USC
- 2018 Undergraduate Research Associates Program, USC
- 2017 Zumberge Individual Research Award, USC
- 2017 Undergraduate Research Associates Program, USC
- 2005-2010 Conference travel grants, Graduate and Professional Student Association,
Arizona State University
- 2008 Dissertation Research Grant, Graduate and Professional Student
Association, Arizona State University
- 2006-2007 Research grants, School of Human Evolution and Social Change, Arizona
State University
- 2006-2007 Conference travel grant, School of Human Evolution and Social Change,
Arizona State University

PUBLICATIONS

Peer-Reviewed Journal Articles († Indicates student co-author)

- Liu J, **Lewton** KL, Colletti PM, Powers CM. Accepted. Hip adduction during running: influence of sex, hip abductor strength and activation, and pelvis and femur morphology. *Medicine & Science in Sports & Exercise*.
- Hinde K, CEG Amorim, AF Brokaw, N Burt, M Casillas, A Chen, T Chestnut, PK Connors, M Dasari, CF Ditelberg, J Dietrick, J Drew, L Durgavich, B Easterling, C Henning, A Hilborn, EK Karlsson, M Kissel, J Kobylecky, J Krell, DN Lee, KM Lesciotto, KL **Lewton**, JE Light, J Martin, A Murphy, W Nickley, A Núñez-de la Mora, O Pellicer, V Pellicer, AM Perry, SG Schuttler, AC Stone, B Tanis, J Weber, M Wilson, E Willcocks, CN Anderson. 2021. March Mammal Madness and the power of narrative in science outreach. *eLife* 10:e65066 DOI: [10.7554/eLife.65066](https://doi.org/10.7554/eLife.65066)
- Lewton** KL, †Brankovic R, †Byrd WA, †Cruz D, †Morales J, †Shin S. 2020. The effects of phylogeny, body size, and locomotor behavior on the three-dimensional shape of the pelvis in extant carnivorans. *PeerJ* 8:e8574 DOI: [10.7717/peerj.8574](https://doi.org/10.7717/peerj.8574)
- Lewton** KL and Patel BA. 2020. Calcaneal elongation and bone strength in leaping galagids. *American Journal of Physical Anthropology* 171:430-438. DOI: [10.1002/ajpa.23970](https://doi.org/10.1002/ajpa.23970)
- Sollaccio DR, Navo P, Ghiassi A, Orr CM, Patel BA, **Lewton** KL. 2019. Evaluation of articular surface similarity of hemi-hamate grafts and proximal middle phalanx morphology: a 3D geometric morphometric approach. *Journal of Hand Surgery* 44(2):121-128. DOI: [10.1016/j.jhsa.2018.06.008](https://doi.org/10.1016/j.jhsa.2018.06.008)
- Lewton** KL, Ritzman T, Copes LE, Garland T Jr, Capellini TD. 2019. Exercise-induced loading increases ilium cortical area in a selectively bred mouse model. *American Journal of Physical Anthropology* 168(3):543-551. DOI: [10.1002/ajpa.23770](https://doi.org/10.1002/ajpa.23770)

- Lewton** KL. 2017. The effects of captive versus wild rearing environments on long bone articular surfaces in common chimpanzees (*Pan troglodytes*). *PeerJ* 5:e3668
DOI: [10.7717/peerj.3668](https://doi.org/10.7717/peerj.3668)
- Lewton** KL and Scott JE. 2017. Ischial form as an indicator of bipedal kinematics in early hominins: a test using extant anthropoids. *Anatomical Record* 300(5):845-858. DOI: [10.1002/ar.23543](https://doi.org/10.1002/ar.23543)
- Lewton** KL and Dingwall HL. 2016. Morphological convergence in the pubis of slow-moving primates and xenarthrans. *American Journal of Physical Anthropology* 161(3):381-397. DOI: [10.1002/ajpa.23038](https://doi.org/10.1002/ajpa.23038)
- Warrener AG, **Lewton** KL, Pontzer H, Lieberman DE. 2015. A wider pelvis does not increase locomotor cost in humans, with implications for the evolution of childbirth. *PLOS ONE* 10(3): e0118903. DOI: [10.1371/journal.pone.0118903](https://doi.org/10.1371/journal.pone.0118903)
- Morgan ME, **Lewton** KL, Kelley J, Otárola-Castillo E, Barry JC, Flynn LJ, Pilbeam DR. 2015. A partial hominoid innominate from the Miocene of Pakistan: description and preliminary analyses. *Proceedings of the National Academy of Sciences* 112(1):82-87. DOI: [10.1073/pnas.1420275111](https://doi.org/10.1073/pnas.1420275111)
- Lewton** KL. 2015. Allometric scaling and locomotor function in the primate pelvis. *American Journal of Physical Anthropology* 156:511-530. DOI: [10.1002/ajpa.22696](https://doi.org/10.1002/ajpa.22696)
- Lewton** KL. 2015. *In vitro* strain distributions in a sample of primate pelvises. *Journal of Anatomy* 226(5):458-477. DOI: [10.1111/joa.12294](https://doi.org/10.1111/joa.12294)
- Lewton** KL. 2015. Pelvic form and locomotor adaptation in strepsirrhine primates. *Anatomical Record* 298(1):230-248. DOI: [10.1002/ar.23070](https://doi.org/10.1002/ar.23070)
- Lewton** KL. 2012. Evolvability of the primate pelvic girdle. *Evolutionary Biology* 39(1):126-139. DOI: [10.1007/s11692-011-9143-6](https://doi.org/10.1007/s11692-011-9143-6)
- Lewton** KL. 2012. Complexity in biological anthropology in 2011: species, reproduction, and sociality. *American Anthropologist* 114(2):196-202. DOI: [10.1111/j.1548-1433.2012.01418.x](https://doi.org/10.1111/j.1548-1433.2012.01418.x)

Book chapters, invited commentaries, and book reviews

- Lewton** KL. Accepted. [Review of *Skeletal Anatomy of the Newborn Primate*, by TD Smith, VB DeLeon, CJ Vinyard, JW Young]. *American Journal of Physical Anthropology*. DOI: [10.1002/ajpa.24344](https://doi.org/10.1002/ajpa.24344)
- Lewton** KL. 2017. Bipedalism. In: Fuentes A, editor. *International Encyclopedia of Primatology*. Wiley Blackwell Publishers.
- Nalley TK and **Lewton** KL. 2015. From the ground up: integrative research in primate locomotion. *American Journal of Physical Anthropology* 156:495-497. DOI: [10.1002/ajpa.22725](https://doi.org/10.1002/ajpa.22725)

PUBLISHED ABSTRACTS / CONFERENCE PRESENTATIONS (*Invited, †Student co-author)

- Lewton** KL. 2020. Relationships among three-dimensional os coxae shape, locomotor behavior, phylogeny, and size in haplorhine and strepsirrhine primates. *American Journal of Physical Anthropology* 171(S69):160 (presented April 2021).
- †Wennemann SE, **Lewton** KL, Orr CM, Almécija S, Patel BA. 2020. A geometric morphometric approach to quantify the longitudinal curvature of primate proximal

- phalanges from 3D surface data. *American Journal of Physical Anthropology* 171(S69):305.
- †Liu J, **Lewton** KL, Powers CM. 2019. Hip adduction and knee valgus during running: an issue of muscle strength or bony morphology? 27th Congress of the International Society of Biomechanics, Calgary, Canada, 7/31/19-8/4/19. [Poster]
- †Cruz D, †Morales J, **Lewton** KL. 2019. Evolutionary morphology, shape, and locomotor function of the pelvis in carnivorans. 21st Annual Undergraduate Symposium for Scholarly and Creative Work, 4-10-19, USC. [Poster]
- Lewton** KL and Patel BA. 2019. Lighten the load: calcanei of leaping galagids have relatively less cortical bone volume than quadrupedal species. *American Journal of Physical Anthropology* 168(S68):143. [Podium]
- Lewton** KL and Patel BA. 2018. Bone strength properties of the calcaneus and navicular in leaping galagids. *American Journal of Physical Anthropology* 165(S66):158. [Podium]
- †Vergamini M, †Smail IE, **Lewton** KL, Reed KE, Rector AL. 2018. Using ecomorphology of modern cercopithecoids for retrodiction of locomotor behavior of the fossil primate community of the Hadar and Ledi-Geraru sites, Afar Region, Ethiopia. *American Journal of Physical Anthropology* 165(S66):287. [Poster]
- †Brankovic R and **Lewton** KL. Three-dimensional shape and locomotor function of the carnivoran pelvis. 20th Annual Undergraduate Symposium for Scholarly and Creative Work, 4-11-18, USC. [Poster, Honorable Mention]
- †Navo P, Sollaccio DR, †Rosario S, †Rounds A, Ghiassi A, Orr CM, Patel BA, **Lewton** KL. Evaluation of Articular Surface Similarity of Hemi-hamate Grafts and Proximal Middle Phalanx Morphology: a 3D Geometric Morphometric Approach. Presented at the Orthopaedic Research Society Annual Meeting, March 11-12, 2018, New Orleans. [Poster]
- Light JE, Maher SP, Anderson CN, Apkenas V, Drew JA, Henning C, **Lewton** KL, Tanis BP, Hinde K. March Mammal Madness: Communicating science and art across social media. 97th annual meeting of the American Society of Mammalogists, June 20-24, 2017
- ***Lewton** KL. 2017. Functional analysis of lower ilium shape and robusticity in Plio-Pleistocene hominins. *American Journal of Physical Anthropology* 162(S64):262. [Poster]
- †Vergamini M, Rector AL, **Lewton** KL. 2017. Ecomorphology of the fossil monkey community of the Hadar and Ledi-Geraru sites, Afar Region, Ethiopia. *American Journal of Physical Anthropology* 162(S64):395. [Poster]
- Lewton** KL, Ritzman TB, Copes LE, Garland Jr T, Capellini TD. 2016. Effects of exercise-induced loading on internal bone morphology of the mouse ilium: implications for lower ilium robusticity in primates. *American Journal of Physical Anthropology* 159(S62):208. [Poster]
- Lewton** KL. 2015. Morphological convergence in the pelvis of slow-moving sloths and lorises. *American Journal of Physical Anthropology* 156(S60):203. [Podium]
- *Anderson CN, **Lewton** KL, Drew JA, Hinde K. 2015. Are you ready to rumble?! Sports championship mimicry to educate about adaptations, community ecology, and conservation. *American Journal of Physical Anthropology* 156(S60):69. [Poster]

- †Costa S and **Lewton** KL. 2015. Obstetrical implications of sexual dimorphism in hominoid os coxae. *The FASEB Journal*, 29(1): 696.1. [Poster]
- Lewton** KL. 2014. Morphological convergence in the pelvis of sloths and primates. Mid-Atlantic Bioanthropology Interest Group, Richmond, VA, 10-25-14. [Podium]
- ***Lewton** KL. 2014. Postcranial mosaicism in the hominin fossil record: resolving locomotor adaptive signal from morphological noise. *American Journal of Physical Anthropology* 153(S58):169. [Podium]
- ***Lewton** KL. 2013. Dissection and coalescence: comparative and experimental approaches to understanding hip form and function. American Anthropological Association, Chicago, 11-21-13. [Podium]
- Lewton** KL. 2013. Development, integration, and modularity of the pelvis: implications for fossil hominin evolution. European Society for the study of Human Evolution, Vienna, Austria 9-21-13. [Podium]
- Lewton** KL. 2013. Allometry and function of primate pelvis. American Association of Anatomists, Boston, 4-22-13. [Poster]
- Lewton** KL. 2013. Allometry and function of primate pelvis. *The FASEB Journal* 27(1):755.9. [Podium]
- Kuykendall KL, Reid A, **Lewton** KL, Brink J, Villmoare B. 2013. The South African Palaeocave Survey: A Regional GIS approach in palaeoanthropology. *American Journal of Physical Anthropology* 150(S56):175. [Podium]
- ***Lewton** KL. 2013. What is the role of geometric morphometrics in testing functional hypotheses? A case study using 3D pelvic shape. *American Journal of Physical Anthropology* 150(S56):180. [Poster]
- Kuykendall KL, Reid A, **Lewton** K, Brink J, Villmoare B. 2012. The South African Palaeocave Survey: A Regional GIS approach in palaeoanthropology. African Archaeological Research Days, University of Southampton, UK, 11-3-12. [Podium]
- Lewton** KL. 2012. The effect of biacetabular breadth on metabolic cost of human walking and running. *American Journal of Physical Anthropology* 147(S54):193. [Podium]
- Lewton** KL. 2011. Modularity and morphological integration of the primate ilium and ischiopubis. Division of Vertebrate Morphology, Society for Comparative and Integrative Biology, New England Regional Meeting, 11-5-11. [Podium]
- Lewton** KL. 2011. Iliac and ischiopubic modularity: implications for the evolution of the hominin pelvis. Paleoanthropology Society, Minneapolis, 4-12-11. [Poster]
- Lewton** KL. 2010. Patterns of in vitro strain in the primate pelvis. Division of Vertebrate Morphology, Society for Comparative and Integrative Biology, New England Regional Meeting, 10-16-10. [Podium]
- Lewton** KL. 2010. Pelvic biomechanics and locomotor adaptation within the Order Primates. *American Journal of Physical Anthropology* 141(S50):154-155. [Podium]
- Ritzman TB, Copes LE, **Lewton** KL. 2010. Correlation between measures of the lateral and midline basicranium: Implications for understanding facial positioning in anthropoid primates. *American Journal of Physical Anthropology* 141(S50):198. [Poster]

- Lewton** KL. 2010. Patterns of strain in the primate pelvis: implications for theoretical models of pelvic biomechanics. *The FASEB Journal* 24(1):449.11. [Poster]
- Ritzman TB, Copes LE, **Lewton** KL. 2009. A comparison of midline and lateral measures of the middle cranial fossa in hominoid primates. *The FASEB Journal* 23(1):648.2. [Poster]
- Lewton** KL, Spencer MA, Crawford NR. 2008. In vitro bone strain in a macaque pelvis during hindlimb loading. *American Journal of Physical Anthropology* 135(S46):140. [Podium]
- Lewton** KL and Spencer MA. 2007. Scaling patterns and the functional morphology of primate pelvis shape. *American Journal of Physical Anthropology* 132(S44):155. [Poster]
- Lewton** KL. 2005. Epigenetic differences in articular surface area in captive and wild chimpanzees (*Pan troglodytes*). *American Journal of Physical Anthropology* 126(S40):138. [Poster]
- Lewton** KL, Landis EK, Gayheart TA, and Jacofsky MC. 2004. Functional differentiation of the caudal and clavicular heads of the pectoralis major muscle in *Homo sapiens*. *American Journal of Physical Anthropology* 123(S38):135. [Poster]
- Lewton** K, Eck GG, and Kramer PA. 2003. Quantitative analysis of femoral neck shape and loading environment in robust australopithecines. *American Journal of Physical Anthropology* 120(S36):139. [Poster]

ORGANIZED SYMPOSIA

- 2014 "From the Ground Up: Integrative Research in Primate Locomotion," American Association of Physical Anthropologists, Calgary, 4-11-14.

INVITED PRESENTATIONS - NATIONAL

- 2020 "Comparative pelvic anatomy reveals adaptations to human bipedalism and birth," University of Tennessee, Knoxville, 4-8-2020
- 2019 "Functional morphology," California State University Long Beach, 10-21-19
 "Birth, bipedalism, and the evolution of the human hip," Center for Behavior, Evolution, and Culture, University of California Los Angeles, 9-30-19
 "Limb bone adaptations to locomotor mechanics in primates," Department of Biological Sciences, California Polytechnic State University, San Luis Obispo, 4-26-19
 "Tarsal bone strength properties of leaping primates," Molecular Imaging Center, Department of Radiology, University of Southern California, 4-11-19
- 2016 "Evolution of bipedality and the human hip," Department of Anthropology, University of Nevada Las Vegas, 3-14-16
 "Adaptation, modularity, and the evolution of the primate pelvis," Department of Biology, University of California Riverside, 1-28-16
- 2015 "Evolutionary flexibility and loading adaptation of the ilium," Department of Anthropology, Pennsylvania State University, 10-23-15
 "Pelvic functional morphology and the evolution of the human hip" Department of Anthropology, Boston University, 03-19-15

- “Difficult birth in modern humans: insights from biomechanics and human evolution,” Department of Obstetrics and Gynecology Grand Rounds, Boston Medical Center, 03-04-15
- “What can our hip bones tell us about the evolution of bipedality?” Rhode Island College, Department of Biology, 02-26-15
- “How does the pelvis respond to loading?” Shefelbine Bone Biomechanics Lab, Department of Mechanical and Industrial Engineering, Northeastern University, 02-25-15
- 2014 “Integrative approaches in paleoanthropology: biomechanics, comparative morphology, and GIS,” Boston University Department of Archaeology, 12-10-14
- “Locomotion, childbirth, and the evolution of the human hip,” Virginia Commonwealth University, 10-24-14
- “Primate locomotion, pelvic adaptation, and the evolution of human bipedalism,” University of Southern California, Program in Human and Evolutionary Biology, Symposium on Evolutionary Biomechanics, 4-22-14
- “Primate locomotion, pelvic adaptation, and the evolution of human bipedalism,” Rutgers University Evolutionary Anthropology, 4-18-14

INVITED PRESENTATIONS – INTERNATIONAL

- 2016 “Adaptations to locomotion in the primate pelvis: implications for human evolution,” Human Evolution Research Institute, University of Cape Town, South Africa 8-2-16

INVITED PANELS

- 2016 Panelist, Committee on Diversity Women’s Initiative, Graduate Student Women’s Professional Development Workshop, American Association of Physical Anthropologists, Atlanta, GA, 4-13-16
- 2014 Panelist, “Now What? How to Get Employment After Graduate School,” American Anthropological Association conference, Washington, DC
- 2012 Panelist, Anatomy Career Workshop at American Association of Physical Anthropologists, sponsored by the American Anatomical Association and organized by J. Rutherford and A. Doubleday

FELLOWSHIPS, HONORS, & AWARDS

- 2016 American Association of Anatomists Short-Term Visiting Scholarship
- 2016 Year 1 Faculty Teaching Award, Keck School of Medicine, USC
- 2013 American Association of Anatomists travel award
- 2013 Finalist for postdoctoral platform presentation prize, American Association of Anatomists
- 2013 Certificate of Teaching Excellence, Harvard University
- 2011 Paleoanthropology Society Travel Grant
- 2010 Mildred Trotter Prize, Best Oral Presentation, American Association of Physical Anthropologists
- 2010 Finalist for student poster presentation prize, American Association of Anatomists
- 2010 American Association of Anatomists travel award

- 2010 William S. Pollitzer travel award, American Association of Physical Anthropologists
- 2008-2010 Dean's Advanced Scholarship, Arizona State University
- 2008 Donald H. Morris Award for Outstanding Doctoral Student in Physical Anthropology, School of Human Evolution and Social Change, ASU
- 2002-2006 National Science Foundation IGERT Fellowship in Neural and Musculoskeletal Adaptations in Form and Function

FIELD EXPERIENCE

- 2012 South African Palaeocave Survey, South Africa, PI: Kevin Kuykendall, <http://southafricanpalaeocaves.wordpress.com/>
- 2009 Beza Mahafaly Special Reserve, Madagascar
- 2005 Awash-Mille Survey Project, Institute of Human Origins, Afar Regional State, Ethiopia, PIs: Charles Lockwood and Kaye Reed
- 2005 Archaeologist, Las Canopas field site, Rio Salado Archaeology, LLC
- 2003 Archaeological excavation crew member, Los Cremaciones, Office of Cultural Resource Management, Phoenix, Arizona
- 2001 Makapansgat Field School, South Africa, Institute of Human Origins and University of Witwatersrand

MUSEUM EXPERIENCE

National

- American Museum of Natural History (NY)
- Arizona State University (AZ)
- Cleveland Museum of Natural History
- Field Museum (IL)
- Natural History Museum of Los Angeles
- Museum of Comparative Zoology (MA)
- Smithsonian National Museum of Natural History (DC)

International

- Beza Mahafaly Osteological Collection (Madagascar)
- Ditsong National Museum of Natural History (Pretoria, South Africa)
- Muséum national d'Histoire naturelle (Paris, France)
- National Museums of Scotland (Edinburgh, Scotland)
- Natural History Museum (London, UK)
- Powell-Cotton Museum (Birchington, UK)
- University of Witwatersrand Evolutionary Studies Institute (Johannesburg, South Africa)

PROFESSIONAL TRAINING & WORKSHOPS

- 2019 AAPA COD-WIN Mentoring the Mentor workshop, March 27, 2019
- 2015 AAPA COD-WIN Early Career workshop, March 25, 2015
- 2013 Geometric morphometrics and phylogeny workshop, Transmitting Science, Barcelona, Spain, September 2-7.

2011 Harvard University Science Faculty Workshop
2010 3D XMA Dynamics Short Course, University of Nevada Las Vegas,
Laboratory of Comparative Biomechanics
2005-2009 Research Assistant, Primate Anatomy Laboratory, Arizona State
University
2004 Research Assistant, Primate Foundation of Arizona, Mesa, Arizona
2002-2006 NSF IGERT: Neural and Musculoskeletal Adaptations in Form and
Function

TEACHING EXPERIENCE

Keck School of Medicine of University of Southern California

M.S. Integrative Anatomical Sciences Seminar (Course Director, Summer 2021)

M.S. Advanced Regional Anatomy (guest lecturer, Fall 2020)

M.S. Human Osteology (guest lecturer, Fall 2018)

M.S. Human Anatomy (Course Director and Curriculum Development, Summer 2018;
Guest lecturer Summer 2019; lab instructor Summer 2020)

Pearls of the Board Review: Gross Anatomy, Internal Medicine Student Interest Group
(guest lecture, 3-31-18)

Medical Gross Human Anatomy (2015-present)

Boston University School of Medicine

Physician Assistant Gross Anatomy (Course Director, Summer 2014 & 2015)

Medical Gross Anatomy (Fall 2014)

Harvard University

Human Origins and Evolution (co-instructor, Spring 2013)

Hominid Paleontology and Evolution (co-instructor, Fall 2012)

Human Evolution and the Human Body (Preceptor & Teaching Fellow, Spring 2011 &
2012)

Research in Comparative Biomechanics: Seminar (Undergraduate independent
research supervisor, Spring 2011 & 2012)

Human Evolution and the Human Body, Evolution and Adaptation of the Human Diet,
Hominid Paleontology and Evolution, Human Origins and Evolution (Curriculum
development, 2010-2013)

Arizona State University

Forensic Anthropology (Associate Instructor, Spring 2010)

Bones, Stones, and Human Evolution (Associate Instructor, Spring 2009)

Human Anatomy & Physiology (Associate Instructor, 2006-2008)

University of Arizona College of Medicine - Phoenix

Clinical Anatomy (medical human gross anatomy, Associate Instructor, Fall 2007 &
2008)

TRAINEE ADVISING & MENTORING

Graduate Students

William Byrd (MS, 2019)	Integrative Anatomical Sciences, USC	Research advisor
Jordan Cannon (PhD Cand.)	Biokinesiology & Physical Therapy, USC	Committee member
Jia Liu (PhD, 2020)	Biokinesiology & Physical Therapy, USC	Committee member
Katie Sayre (PhD Cand.)	Biological Sciences, USC	Qualifications Committee member
Stephanie Costa (MA, 2015)	BU School of Medicine, Anatomy	Primary advisor
Amanda Costello (MA, 2015)	BU School of Medicine, Forensic Anthropology	Committee member

Undergraduate Students

Emily-Elizabeth Cardenas (2020-2021)	USC, Biology
Daniela Cruz (2019-2020)	USC, Biology
Jocelyn Morales (2018-2020)	USC, Biology
Ryan Brankovic (2017-2018)	USC, Physics & Biology
Erandy de la Peña (2016)	American Jewish University/USC
R. William Horace (2015)	Boston University
Ayse Baybars (2011-2012)	Harvard University
Jaren LaGreca (2011-2012)	Harvard University

High School Students

Serin Shin (2019)	North Hollywood High School
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Student Organizations

2016-present Faculty Adviser, MedLambda, Keck School of Medicine

SERVICE & LEADERSHIP

Professional

2019-2020	Co-Chair, Local Arrangements Committee, American Association of Physical Anthropologists 89 th Annual Conference, Los Angeles, 2020
2019-present	Executive Committee, Membership Chair, American Association of Physical Anthropologists
2018-2019	Grant Awards Task Force, American Association for Anatomy
2018-2020	Scientific Program Committee, American Association of Physical Anthropologists
2018-present	Steering Committee Member, American Association of Physical Anthropologists, Committee on Diversity: LGTBQQIAA
2018-present	Steering Committee Member, American Association of Physical Anthropologists, Committee on Diversity: Women's Initiative (COD-WIN)
2017-present	Associate Editor, <i>Journal of Human Evolution</i>

2014-2015 Co-organizer, Mid-Atlantic Bioanthropology Interest Group
 2013-2017 Scientific Program Committee, American Association of Physical Anthropologists
 2012-2013 Ad Hoc New Media Committee, American Association of Physical Anthropologists
 2012-2013 Co-organizer, Physical Anthropology Women's Mentoring Network annual event
 2011-2016 Student Awards Committee, American Association of Physical Anthropologists
 2010-2017 Steering Committee, Physical Anthropology Women's Mentoring Network
 2004-2009 Grant reviewer, Graduate and Professional Student Association, ASU

Manuscript *ad hoc* reviewer:

American Journal of Physical Anthropology, Anatomical Record, Computer Methods in Biomechanics and Biomedical Engineering, Journal of Anatomy, Journal of Human Evolution, Journal of Mammalogy, Nature Communications, PeerJ, Zoology

Grant proposal *ad hoc* reviewer:

National Science Foundation (Biological Anthropology Senior Research, 2013, 2020),
 The Leakey Foundation (2014-present), Swiss National Science Foundation (2016-2017, 2021)

Textbook reviewer:

Lippincott Williams & Wilkins, Anatomy texts (2014); Open SUNY textbooks (2015)

University & Departmental

2021 Chair, Department of Integrative Anatomical Sciences Postdoctoral Teaching Scholar Search Committee, USC
 2021 Member, Annual Merit Review Committee, Department of Integrative Anatomical Sciences, USC
 2020-present Program Director, Master of Science in Integrative Anatomical Sciences, USC
 2019-present Member, Brain, Behavior, and Movement Working Group for the Keck School of Medicine Curriculum Renewal
 2019-2020 Chair, Department of Integrative Anatomical Sciences Gross Anatomy Faculty Search Committee, USC
 2019-present Member, Risk Assessment Task Force, Department of Integrative Anatomical Sciences, USC
 2019 Chair, Department of Integrative Anatomical Sciences Postdoctoral Teaching Scholar Search Committee, USC
 2018-2019 Member, Department of Integrative Anatomical Sciences Neuroanatomy Faculty Search Committee, USC

- 2017-2018 Member, Annual Merit Review Committee, Department of Integrative Anatomical Sciences, USC
- 2017-2019 Chair, Social Media Outreach, Paleosciences Research Consortium, USC
- 2017-2020 Member, Paleosciences Research Consortium Planning Committee, USC
- 2017-2019 Chair, Social Media Outreach, Department of Integrative Anatomical Sciences, USC
- 2017-present Chair, Social Media Outreach, Master's Program, Department of Integrative Anatomical Sciences, USC
- 2017 Member, LCME Accreditation Junior Faculty Group, Keck School of Medicine
- 2017-2018 Member, Department of Integrative Anatomical Sciences Gross Anatomy Laboratory Renovation Committee, USC
- 2017-present Member, Department of Integrative Anatomical Sciences Master's Program Admissions Committee
- 2015-2017 Member, Department of Cell and Neurobiology Master's Program Development Committee, USC
- 2015-2016 Member, Department of Cell and Neurobiology Gross Anatomy Faculty Search Committee, USC
- 2015-2016 Member, Department of Cell and Neurobiology Microanatomy Faculty Search Committee, USC
- 2015 Member, Self-Study Standards for Accreditation Committee, Physician Assistant Program, Boston University
- 2014-2015 Member, Educational Policy and Curriculum Committee, Physician Assistant Program, Boston University
- 2014-2015 Member, Physician Assistant Program Admissions Committee, Boston University
- 2010-2013 Committee member, undergraduate honors theses, Harvard University
- 2007 Committee chairperson, Graduates in the Earth, Life, and Social Sciences Symposium, Arizona State Univ.
- 2006-2007 President, Association of Anthropology Graduate Students, Arizona State Univ.
- 2004-2006 Committee member, Graduates in the Earth, Life, and Social Sciences Symposium, Arizona State Univ.
- 2004-2005 Treasurer, Association of Anthropology Graduate Students, Arizona State Univ.
- 2003-2004 Graduate student representative, Physical Anthropology subdiscipline, Arizona State Univ.

Public Service & Outreach

- 2021 March Mammal Madness Narrator
- 2019-2020 STEM Professional, Letters to a Pre-Scientist
- 2018 Invited speaker, Campbell Hall, Studio City, CA

- 2018 Guest expert, "Brains On!" Kids science podcast produced by American Public Media <https://www.brainson.org/shows/2016/10/25/body-bonanza-yawns-hiccups-goosebumps-and-more>
- 2017 Guest lecture, Camp Cardiac at Keck School of Medicine
- 2016 Guest lecture, Camp Cardiac at Keck School of Medicine
- 2014-2016 Co-Organizer & Narrator, Mammal March Madness
- 2012 Invited speaker, Xaverian Brothers High School, Westwood, MA
- 2011 Invited blog post, anthropologiesproject.org: "Biological anthropology: providing the historical context for all your anthropological questions." <http://www.anthropologiesproject.org/2011/08/biological-anthropology-providing.html>
- 2007 Project Medical Education Volunteer, Phoenix, AZ
- 2006 K-12 educator, Institute of Human Origins, Tempe, AZ
- 2005 Sigma Xi Judge, Intel International Science and Engineering Fair, Phoenix, AZ

MEDIA COVERAGE

***Sivapithecus* fossil innominate**

"Fossil raises puzzling questions about how upright body plan of great apes evolved,"
February 4, 2015

A wider pelvis does not increase locomotor cost in humans

"In defense of wide hips," BU Research, April 14, 2015

"Hip correction," Harvard Gazette, March 23, 2015

March Mammal Madness

"March Mammal Madness, an entertaining and educational 'tourney' about wildlife instead of sports teams," Washington Post, February 27, 2021

"March Mammal Madness' Brings Simulated Animal Fights to Huge Audiences,"
Scientific American, February 22, 2021

"Mammals face off in Twitter battles for supremacy," Nature News, March 23, 2016

"Have a Weasel in Your Bracket? Fans Go Mad for Mammals," Wall Street Journal,
March 7, 2016

"Mammal March Madness: Imaginary death matches in the animal kingdom," Boston
Globe, March 18, 2015

"Mammal March Madness is beloved animal version of NCAA championship," Chicago
Tribune, March 8, 2015

"Mammal March Madness: Fill Out Your Bracket," Discovery News, March 7, 2015

"Could a quokka beat a numbat? Oddsmakers say yes," NPR, March 6, 2015

PROFESSIONAL MEMBERSHIP

Current

American Association for the Advancement of Science

American Association for Anatomy

American Association of Biological Anthropologists

Past

American Society of Mammalogists

Paleoanthropology Society

Society of Integrative and Comparative Biology

Society of Vertebrate Paleontology