

# CURRICULUM VITAE

**Shara E. Bailey**

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## Education

### **Arizona State University, Department of Anthropology, Tempe, AZ**

PhD in Anthropology Jan 2002

Dissertation Title: Neanderthal Dental Morphology: Implications for Modern Human Origins

Dissertation director: Prof. William H. Kimbel

Master of Arts in Anthropology 1995

Thesis Title: Population distribution of the *tuberculum dentale* complex and anomalies of the anterior maxillary teeth.

Thesis director: Regents' Professor, Christy G. Turner, II

### **Temple University, Philadelphia, PA**

Bachelor of Arts in Psychology and Anthropology 1992

## Positions/Affiliations

Professor, New York University, Department of Anthropology, New York, NY 2020-

Associate Professor, New York University, Department of Anthropology, New York, NY 2011-2020

Associated Scientist, Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany 2006-2021

Assistant Professor, New York University, Department of Anthropology, New York, NY 2005-2011

Research Scientist, The Max Planck Institute, Department of Human Evolution, Leipzig, Germany 2004-2006

Postdoctoral Research Associate (Prof. Bernard Wood, Research Director) 2002-2004  
The George Washington University, CASHP, Washington DC

## Appointments

Director, Center for the Study of Human Origins 2021-2023

Associate Chair, Anthropology Department 2018-2023  
New York University, College of Arts and Sciences

Director of Undergraduate Studies, Anthropology Department 2016-2018  
New York University, College of Arts and Sciences

Director, Women in Science Initiative 2013-2019  
New York University, College of Arts and Sciences

Associated Research Scientist 2004-2006  
The George Washington University, CASHP, Washington DC

James Arthur Intern in Biological Anthropology (Dr. Ian Tattersall, Research Director) 2001-2002  
American Museum of Natural History, 79<sup>th</sup> Street at Central Park West, New York, NY

Instructor, Anthropology 2000-2001  
2000-2001

Arizona State University, Department of Anthropology, Tempe, AZ

Adjunct Faculty, Anthropology Mesa Community College, Department of Anthropology, Mesa, AZ	2000-2001
Instructor, Anthropology Northern Arizona University, Department of Anthropology, Flagstaff, AZ	1997-1999
Adjunct Instructor, Anthropology Coconino Community College, Flagstaff, AZ	1997-1999
Adjunct Instructor, Anthropology Glendale Community College, Glendale, AZ	1996
Museum of Northern Arizona, Flagstaff, AZ <i>Biological Anthropologist/Osteologist – NAGPRA inventory</i>	(Summer) 1995, 1997
<i>Museum Assistant/database management related to NAGPRA Inventory</i>	(Summer) 1996

### Full Length (Peer-Reviewed)

- Cerrito P, Hu B, Goldstien J, Kalisher R, Bailey S, Bromage T. (in press) Elemental composition of primary lamellar bone differs between parous and nulliparous rhesus macaque females. PLoS One.
- González-Urquijo J, **Bailey SE**, Lazuen T. 2021. Axlors level IV human remains are convincingly Neanderthals: A reply to Gómez-Olivencia et al. Am J Biol Anthropol. 176: 553-558. <https://doi.org/10.1002/ajpa.24252>.
- Cerrito P, Cerrito L, Hu B, **Bailey SE**, Kalisher R, Bromage T. 2021. Weaning, parturitions and illnesses are recorded in rhesus macaque dental cementum microstructure" Am J Primatol. <https://doi.org/10.1002/ajp.23235>.
- Brophy JK, Moggi-Cecchi J, Matthews GJ, **Bailey SE**. 2021. Comparative morphometric analyses of the deciduous molars of *Homo naledi* from the Dinaledi Chamber, South Africa. Am J Biol Anthropol. 174: 299-314. <https://doi.org/10.1002/ajpa.24190>.
- Bailey SE**, Sorrentino R, Mancuso G, Hublin J-J, Benazzi S. 2020. Taxonomic differences in deciduous lower first molar crown outlines in *Homo sapiens* and *Homo neanderthalensis*. J Hum Evol. 147: 102864. <https://doi.org/10.1016/j.jhevol.2020.102864>.
- Brophy JK, Moggi-Cecchi J, Matthews G, **Bailey SE**. 2020. Comparative morphometric analyses of the deciduous molars of *Homo naledi* from the Dinaledi Chamber, South Africa. Am J Phys Anthropol. 174:299-314. <https://doi.org/10.1002/ajpa.24190>
- Cerrito P, **Bailey SE**, Hu B, Bromage TG. 2020. Parturitions, menopause and other physiological stressors are recorded in dental cementum microstructure. Nature SciRep. 10(1) 1-11. doi:10.1038/s41598-020-62177-7
- Ortiz A, Schander-Triplett K, **Bailey SE**, Skinner MM, Hublin J-J, Schwartz GT. 2020. Enamel Thickness variation in the deciduous dentition of large bodied hominoids. Am J Phys Anthropol. <http://dx.doi.org/10.1002/ajpa.24106>
- Hublin J-J, Sirakov N, Aldeias V, **Bailey SE**, Bard E, Delvigne V, Fagault Y, Fewlass H, Hajdinjak M, Kromer B, Krumov I, Marreiros J, Martisius N, Paskulin L, Sinet-Mathiot V, Meyer M, Pääbo S, Popov V, Rezek Z, Sirakova S, Skinner MM, Smith GM, Spasov R, Talamo S, Tuna T, Wacker L, Welker F, Wilcke A, Zahariev N, McPherron S, Tsanova T. 2020. Initial Upper Paleolithic *Homo sapiens* remains from Bacho Kiro Cave (Bulgaria). Nature.581: 299-302.

- Bailey SE**, Kupczik, Hublin J-J, Antón SC. 2020. Reply to Scott et al: A closer look at the 3-rooted lower second molar of an archaic human from Xiahe. *Proc Nat Acad Sci*. 117: 39-40.  
<https://doi.org/10.1073/pnas.1918959116>.
- Ortiz A, **Bailey SE**, Delgado M, Zanolli C, Demeter F, Bacon A-M, Nguyen TMH, Nguyen AT, Zhang Y, Harrison T, Hublin J-J, Skinner MM. 2019. A distinguishing feature of *Pongo* upper molars and its implications for the taxonomic identification of isolated hominid teeth from the Pleistocene of Asia. *Am J Phys Anthropol*. 170, 595-612. Doi: 10.1002/ajpa.23928.
- Bailey SE**, Hublin J-J, Antón SC. 2019. Rare dental trait provides morphological evidence for archaic introgression in Asian fossil record. *Proc Nat Acad Sci*. 116: 14806-1480  
<http://doi.org/10.1073/pnas.1907557116>.
- Chen F, Welker F, Shen C-C, **Bailey SE**, Bergmann I, Davis S, Xia H, Wang H, Fischer R, Freidline S, Yu T-L, Skinner MM, Stelzer S, Dong G, Fu Q, Dong G, Wang J, Zhang D & Hublin J-J. 2019. A Middle Pleistocene Denisovan from the Tibetan Plateau. *Nature*. 569:409–412.
- Bailey SE**, Brophy J, Moggi-Cecchi J. 2019. The deciduous dentition of *H. naledi*: A comparative study. *J Hum Evol*. <https://doi.org/10.1016/j.jhevol.2019.102655>.
- Lacy SA, **Bailey SE**, Benazzi S, Delage C. 2018. Newly recognized human dental remains at Les Fades (Lussac-les-Chateaux, Vienne, France). *BMSAP*. 30: 180-191.  
<https://doi.org/10.3166/bmsap-2018-0007>.
- Smith TM, Austin C, Green DR, Joannes-Boyau R, **Bailey SE**, Dumitriu D, Fallon S, Grün R, James HF, Moncel M-H, Williams IS, Wood R, Arora M. 2018. Wintertime stress, nursing and lead exposure in Neanderthal children. *Sci Adv*. 4: 10. doi: 10.1126/sciadv.aau9483.
- Irish J, **Bailey SE**, Guatelli-Steinberg, D, Deleuzene L, Berger L. 2018. Ancient teeth, phenetic affinities, and African hominins: Another look where *Homo naledi* fits in. *J Hum Evol*. 122: 108-123.
- Ortiz A, **Bailey SE**, Schwartz GT, Hublin J-J, Skinner MM. 2018. Evo-devo models of tooth development and the origin of hominoid molar diversity. *Sci Adv*. 4: 4. doi: 10.1126/sciadv.aar2334.
- Moroni A, Ronchitelli A, Arrighi S, Aureli D, **Bailey SE**, Boscato P, Boschin F, Capecchi G, Crezzini J, Douka K, Marciani G, Panetta D, Ranaldo F, Ricci S, Scaramucci S, Spangnolo V, Benazzi S, Gambassini P. 2018. Grotta del Cavallo (Apulia – Southern Italy). The Uluzzian in the mirror. *J Anth Sci*. 96:1-36.
- Ortiz A, **Bailey SE**, Hublin J-J, Skinner MM. 2017. Homology, homoplasy, and cusp variability at the enamel-dentine junction of hominoid molars. *J Anat*. 281: 585-599.
- Hawks J, Elliott M, Schmid P, Churchill S, de Ruiter D, Roberts E, Hilbert-Wolf H, Garvin H, Williams S, Deleuzene L, Feuerriegel E, Randolph-Quinney P, Kivell T, Laird M, Tawane G, DeSilva J, **Bailey SE**, Brophy J, Meyer M, Skinner M, Tocheri M, VanSickle C, Walker C, Campbell T, Kuhn B, Kruger A, Tucker S, Gurtov A, Hlophe N, Hunter R, Morris H, Peixotto B, Ramalepa M, van Rooyen D, Tsikoane M, Boshoff P, Dirks P, Berger L. 2017. New fossil remains of *Homo naledi* from Lesedi Chamber, South Africa. *ELife*. <http://dx.doi.org/10.7554/eLife.24232>
- Hublin J-J, Ben-Ncer A, **Bailey SE**, Friedline S, Neubauer S, Skinner M, Bergmann I, Le Cabec A, Benazzi S, Harvati H, Gunz P. 2017. New fossils from Jebel Irhoud (Morocco) and the Pan-African origin of *Homo sapiens*. *Nature*. 546: 289-305. doi:10.1038/nature22336
- Bailey, SE**. 2017. Deciduous Dentition of Fossil Hominins. In: eLS. John Wiley & Sons, Ltd: Chichester. DOI: 10.1002/9780470015902.a0027069

- Bailey SE**, Weaver TD, Hublin J-J. 2017. The dentition of the earliest modern humans. How ‘modern’ are they? In Marom A and Hovers E (Eds) *Human Paleontology and Prehistory. Contributions in Honor of Yoel Rak*. Springer.pp.215-232
- Paul K, Astorino C, **Bailey SE**. 2016. The patterning cascade model and Carabelli’s trait expression in metamerics of the mixed human dentition; exploring a morphogenetic model. *Am J Phys Anthropol.* 162(1): 3-18.
- Bailey SE**, Benazzi S, Buti L, Hublin J-J. 2015. Allometry, merism, and tooth shape of the lower deciduous M2 and permanent M1. *Am J Phys Anthropol.* 159:93-105.
- Ortiz A, Pilbrow V, Villamil CI, Korsgaard JG, **Bailey SE**, Harrison T. 2015. The systematic status of *Bunopithecus sericus*, a Pleistocene gibbon from Chongqing Province, southern China. *PLoS One*. DOI:10.1371/journal.pone.0131206: 1-17.
- Benazzi S, Slon G, Talamo S, Negrino F, Peresani M, **Bailey SE**, Sawyer S, Panetta D, Vicino G, Starnini E, Mannino MA, Salvadori PA, Meyer M, Pääbo S, Hublin J-J. 2015. The makers of the Protoaurignacian and implications for Neandertal extinction. *Science*. Doi: 10.1126/science.aaa2773.
- Bailey SE**, Benazzi S, Souday C, Astorino C, Paul K, Hublin J-J. 2014. Taxonomic differences in deciduous upper second molar crown outlines of *Homo sapiens*, *Homo neanderthalensis*, and *Homo erectus*. *J Hum Evol.* 72: 1-9.
- Bailey SE**, Benazzi S, Hublin J-J. 2014. Allometry, merism, and tooth shape of the upper deciduous M2 and permanent M1. *Am J Phys Anthropol.* 154(1): 104-114.
- Benazzi S, **Bailey SE**, Peresani M, Mannino MA, Romandini M, Richards MP, Hublin J-J. 2014. Middle Paleolithic and Uluzzian human remains from Fumane Cave, Italy. *J Hum Evol.* 70: 61-8.
- Crevecoeur I, Skinner MM, **Bailey SE**, Gunz P, Bortoluzzi S, Brooks AS, Burlet C, Cornelissen E, DeClerck N, Maureille B, Semal P, Vanbrabant Y, Wood B. 2014. First early hominin from Central Africa (Ishango, Democratic Republic of Congo). *PloS One.* 9(1): 1-10.
- Bailey SE** and Hublin, J-J. 2013. What does it mean to be dentally ‘modern’? In Scott G and Irish J (eds.) *Anthropological Perspectives on Tooth Morphology: Genetics, Evolution, Variation*. Cambridge University Press. Pp: 222-248.
- Benazzi S, **Bailey SE**, Mallegni, F. 2013. Brief Communication: A morphometric analysis of the Neandertal upper second molar Leuca I. *Am J Phys Anth.* 152:300-305.
- Harvati K, Darlas A, **Bailey SE**, Rein T, El Zaatari S, Fiorenza L, Kullmer O, Psathi E. 2013. New Neanderthal remains from Kalamakia cave, Mani peninsula, S. Greece. *J Hum Evol.* 64(6):486-499.
- Tryon CA, **Bailey SE**. 2013. Testing models of modern human origins with archaeology and anatomy. *Nature Education Knowledge.* 4(3): 4.
- Trinkaus E, **Bailey SE**, Rougier H. 2012. Chapter 24. The Dental and Alveolar Remains of Oase 1 and 2. In Trinkaus E, Constantin S, Zilhao J (eds) *Life and Death at the Pestera cu Oase: A setting for modern human emergence in Europe*. pp.781-851.
- Ortiz A, Skinner MM, **Bailey SE**, Hublin J-J. 2012. Carabelli’s trait revisited: An examination of mesiolingual features at the enamel-dentine junction and enamel surface of *Pan* and *Homo sapiens* upper molars. *J Hum Evol.* 1-11.
- Hublin J-J, Verna C, **Bailey SE**, Smith TM, Olejniczak AJ, Sbihi-Alaoui FZ, Zouak M. (2012). Dental evidence from the Aterian human populations of Morocco. In: Hublin J-J & McPherron S (Eds.) *Modern Origins: A North African Perspective*. Springer: Dordrecht.

- Bailey SE**, Skinner MM and Hublin J-J. 2011. What lies beneath? An evaluation of lower molar trigonid crests based on both dentine and enamel expression. *Am J Phys Anthropol.* 45: 505-518.
- Smith TM, Reid DJ, Olejniczak AJ, **Bailey SE**, Glantz M, Viola B, Hublin J-J. 2011. Dental development and age at death of a Middle Paleolithic juvenile hominin from Obi-Rakhmat Grotto, Uzbekistan. In Condemi S & Weniger G (Eds.) *Continuity and Discontinuity in the Peopling of Europe: One Hundred Fifty Years of Neanderthals Study*. Springer, New York, Chapter 13. 155-163.
- Trinkaus E, **Bailey SE**, Davis SJM, Zilhão J. 2011. The Magdalenian human remains from the Galeria da Cisterna (Almonda karstic system, Torres Novas, Portugal) and their archaeological context. *O Arqueólogo Português, Série V, 1*, pp. 395-413.
- Bailey SE** and Liu W. 2009. A comparative dental metrical and morphological analysis of a Middle Pleistocene hominin maxilla from Chaoxian (Chaohu) China. *Quat Int.* 211: 14-23.
- Bailey SE**, Weaver TD and Hublin J-J. 2009. Who made the Aurignacian and other early Upper Paleolithic industries? *J Hum Evol.* 57: 11-26.
- Quam R, **Bailey SE**, and Wood BA. 2009. Evolution of M1 crown size and cusp proportions in the genus *Homo* *J Anat.* 214: 655-670.
- Bailey SE**. 2008. Inter and intraspecific variation in *Pan* tooth crown morphology: Implications for Neandertal taxonomy. In Irish JD and Nelson CG (Eds.), *Technique and Application in Dental Anthropology*. Cambridge University Press: Cambridge. pp. 293 – 317.
- Bailey SE**, Glantz M, Weaver, T, Viola B. 2008. The affinity of the dental remains from the Obi Rakhmat Grotto, Uzbekistan. *J Hum Evol.* 55: 238-248.
- Bailey SE**. 2007. The evolution of non-metric dental variation in Europe. *Mitt Ges Urgesch.* 15: 9-30.
- Bailey SE** and Wood BA. 2007. Trends in postcanine occlusal morphology within the hominin clade: The case of *Paranthropus*. In Bailey SE and Hublin J-J (Eds.) *Dental perspectives on human evolution: State of the art research in dental paleoanthropology*. Springer, New York. Chapter 3: pp. 33 - 52
- Bailey SE** and Hublin J-J. 2006. Dental remains from Grotte du Renne at Arcy-sur-Cure (Yonne). *J Hum Evol.* 50: 485-508.
- Bailey SE**. 2006. Beyond shovel shaped incisors: Neandertal dental morphology in a comparative context. *Period Biol.* 108: 253-267.
- Bailey SE** and Hublin J-J. 2006. Did Neanderthals make the Châtelperronian assemblage from La Grotte du Renne (Arcy-sur-Cure, France)? In: Harvati, K and Harrison, T (Eds.), *Neanderthals Revisited: New Approaches and Perspectives*. Springer: Dordrecht, Chapter 10: pp. 191-209.
- Hublin J-J and **Bailey SE**. 2006. Revisiting the Last Neandertals. In Conard NJ (Ed.) *When Neandertals and Modern Humans Met*. Kerns Verlag, Tübingen. Chapter 7, pp. 105-128.
- Trinkaus E, Moldovan O, Zilhão J, Rougier H, Rodrigo R, Milota S, Gherase M, Sarcina L, Baltean I, Codrea V, **Bailey SE**, Franciscus RG, Ponce de León M and Zollikofer CPE. 2006. The Pestera cu Oase and early modern humans in southeastern Europe. In Conard NJ (Ed.) *When Neandertals and Modern Humans Met*. Kerns Verlag. Tübingen. Chapter 9, pp. 145-164.
- Bailey SE** and Hublin J-J. 2005. Who made the Early Aurignacian? A reconsideration of the Brassempouy dental remains. *Bull Mém Soc Anthropol Paris*, 17: 115-121.
- Bailey SE** and Lynch J. 2005. Diagnostic differences in mandibular P4 shape between Neandertals and anatomically modern humans: A new character for use in phylogenetic analyses? *Am J Phys Anthropol.* 126: 268-277.

- Bailey SE.** 2005. Diagnostic dental differences between Neandertals and Upper Paleolithic modern humans: Getting to the root of the matter. In: Zadzinska, E (Ed.), *Current Trends in Dental Morphology Research*, University of Lodz Press: Lodz, pp. 201-210.
- Bailey SE.** 2004. A morphometric analysis of maxillary molar crowns of Middle-Late Pleistocene hominins. *J Hum Evol.* 47: 183-198.
- Bailey SE,** Pilbrow VC, Wood BA. 2004. Interobserver error in independent attempts to measure cusp base areas of *Pan M*'s. *J Anat.* 205: 323-331.
- Trinkaus E, Moldovan O, Milota S, Bilgar A, Sarcina L, Athreya S, **Bailey SE,** Rodrigo R, Mircea G, Higham T, Bronk Ramsey C and van der Plicht J. 2003. An early modern human from the Pesterța cu Oase, Romania. *Proc Nat Acad Sci.* 100:11231-11236.
- Trinkaus E, Marks AE, Brugal J-P, **Bailey SE,** Rink WJ and Richter D. 2003. Later Middle Pleistocene human remains from the Almond Karstic System, Torres Novas, Portugal. *J Hum Evol.* 45: 219-226.
- Bailey SE.** 2002. A closer look at Neanderthal postcanine dental morphology. I. The mandibular dentition. *New Anat.* 269:148-156.
- Trinkaus E, **Bailey SE,** Zilhão J. 2001. Upper Paleolithic human remains from the Gruta do Caldeirão, Tomar, Portugal. *Riv Portuguesa Arquelologia.* 4: 5-17.
- Bailey SE.** 2000. Dental morphological affinities among late Pleistocene and recent humans. *Dent Anth.* 14: 1-8.
- Trinkaus E, Lebel S, and **Bailey SE.** 2000. Middle Paleolithic and recent human dental remains from the Bau de l'Aubésier, Monieux (Vaucluse). *Bull. Mém. Soc. Anthropol. Paris,* 3-4:207-226.
- Bailey-Schmidt SE.** 1995. The triform variant: I. Definition, classification and population distribution. *Dent Anth Newsltr.* 9(2).

## Edited Volumes

- Bailey SE** and Hublin J-J (Eds.) 2007. *Dental perspectives on human evolution: State of the art research in dental paleoanthropology.* Springer, New York.

## Additional Contributions to Edited Volumes

- Bailey SE** and Zubov A. 2014. Dental Occlusal Discrete Morphology. In Trinkaus et al. (ed.) *The Paleobiology of the Sunghir People: Burials, Bodies and Behavior in the Earlier Upper Paleolithic.* New York: Oxford University Press
- Bailey SE.** 2011. Dental Morphology Topic Editor for *Blackwell's Dictionary of Human Evolution.* Bernard Wood (Ed), Wiley Blackwell
- Bailey SE.** 2011. Human Fossil Record Topic Editor for *Blackwell's Dictionary of Human Evolution.* Bernard Wood (Ed). Wiley Blackwell.
- Bailey SE.** 2005 Nine articles in Birx J (ed) *Encyclopedia of Anthropology.* SAGE Publishing, Thousand Oaks, CA. **Topics:** *Dryopithecus, Gigantopithecus, Zinjanthropus, Sahelanthropus tchadensis, Homo habilis, Homo ergaster, Homo erectus,* Neandertal burials, Neandertal sites.
- Mowbray K and **Bailey SE.** 2002. Three articles in Eldredge, N. (ed.) *Life on Earth: An Encyclopedia of Biodiversity, Ecology and Evolution.* Santa Barbara, CA: ABC-CLIO.  
**Topics:** Great Apes; Lemurs and Other Lower Primates; Primates.
- Spurr K and **Bailey SE.** 2005. Life and Death on the Frontier: Human Remains from the U.S. 89 Archaeological Project. In Elson MD (Ed.) *Sunset Crater Archaeology: The History of a Volcanic*

Landscape. Stone, Shell, Faunal, and Mortuary Assemblages. Anthropological Papers No. 31. Center for Desert Archaeology, Tucson.

## **Published Reviews**

- Bailey SE.** 2019. Tales Teeth Tell. By T. Smith. Issue in Science and Technology, Arizona State University Press.
- Bailey SE.** 2017. What Teeth Reveal About Human Evolution. By D. Guatelli-Steinberg. Q Rev Biol.
- Bailey SE.** 2016. Evolution's Bite: How teeth, diet, and a changing world make us human. By P. Ungar. Princeton University Press.
- Bailey SE.** 2014. Comment on Holliday et al. Right for the Wrong Reasons: Reflections on Modern Human Origins in the Post-Neanderthal Genome Era. *Curr Anthropol.* 55(6):696-724.
- Bailey SE.** 2014. Teeth: A Very Short Introduction. By Peter Ungar. *Am J Phys Anthop.* 155(2):312-313.
- Bailey SE.** 2010. The humans who went extinct: why Neandertals died out and we survived. By C. Finlayson. *Am J Phys Anthrop.* 143: 649-650.
- Bailey SE.** 2007. The Neandertal Adolescent Le Moustier 1: New Aspects, New Results. *J Hum Evol.* 52: 228-229.
- Bailey SE.** 2004. Neanderthals and Modern Humans: An Ecological and Evolutionary Perspective by C. Finlayson. *J Hum Evol.* 47: 111-113.

## **Presentations at Professional Meetings (Published Abstracts Indicated)**

- Cerrito P, Kalisher R, **Bailey SE**, Hu B, Bromage T. 2021. Histological and elemental markers in teeth help reconstruct decedent-specific lived experiences. AAFS 74<sup>th</sup> Annual Scientific Conference (virtual).
- Bailey SE**, Potts R. 2019. New mandible from Olorgesaille sheds light on Middle Pleistocene human evolution in Africa. Annual Meeting of the American Association of Physical Anthropologists. Cleveland, OH.
- Cerrito P, **Bailey SE**, Hu B, Bromage T. 2019. Life history parameters recorded in dental cementum. Annual Meeting of the American Association of Physical Anthropologists. Cleveland, OH.
- Kozitsky E, **Bailey SE**. 2019. Mixed support for the patterning cascade model in bears: Implications for understanding the evolution and development of hominin molar morphology. Annual Meeting of the American Association of Physical Anthropologists. Cleveland, OH.
- Ortiz A **Bailey SE**, Hublin J-J, Skinner MM, Schwartz G. 2019. Enamel thickness in deciduous dentition of humans and great apes. Annual Meeting of the American Association of Physical Anthropologists. Cleveland, OH.
- Smith TM, Austin C, Green DR, Joannes-Boyau R, **Bailey SE**, Dumitriu D, Fallon S, Grün R, James HF, Moncel M-H, Williams IS, Wood R, Arora M. 2019. Tales teeth tell: Wintertime stress, nursing and lead exposure in Neanderthal children. Annual Meeting of the American Association of Physical Anthropologists. Cleveland, OH.
- Astorino C, Paul K, **Bailey SE**. 2018. A test of the patterning cascade model: Carabelli's trait and hypocone expression in dm2-M3 across modern human dental complexes. Annual Meeting of the American Association of Physical Anthropologists. Austin, TX.

- Bailey SE**, Delezene LK, Moggi-Cecchi J, Skinner MM. 2018. Teeth on trial: What can dental morphology really tell us about hominin phylogeny? Annual Meeting of the American Association of Physical Anthropologists. Austin, TX. (Invited Podium Symposium)
- Cerrito P, Ortiz A, Kimock C, He K, **Bailey SE**. 2018. Taxonomic classification of hominoid upper and lower first molar crown outlines: which molar and which method works best? Annual Meeting of the American Association of Physical Anthropologists. Austin, TX.
- Curley A, **Bailey SE**. 2018. A comparison of metric variation in deciduous molars of *Homo sapiens* and *Homo neanderthalensis*. Annual Meeting of the American Association of Physical Anthropologists. Austin, TX.
- Kenessey D, **Bailey SE**, Kimbel WH. 2018. On the cusp of a distinction: Does molar cusp position distinguish *Homo* from *Australopithecus*? Annual Meeting of the American Association of Physical Anthropologists. Austin, TX.
- Ortiz A, **Bailey SE**, Hublin J-J, Skinner M. 2018. The morphology of Carabelli's cusp at the enamel-dentine junction of *Australopithecus* and *Paranthropus* upper molars. Annual Meeting of the American Association of Physical Anthropologists. Austin, TX.
- Skinner M, **Bailey SE**, Gunz P, Kimbel W, Alemseged Z, Delezene L, Menter C, Moggi-Cecchi J, Kupczik K. 2018. Below the crown: examining interspecies variation in postcanine enamel thickness, EDJ, and root form in the *Paranthropus* clade. Annual Meeting of the American Association of Physical Anthropologists. Austin, TX.
- Bailey SE**, Brophy J, Moggi-Cecchi J. 2017. The human remains from Dinaledi Chamber do not belong to *Homo erectus*: evidence from the deciduous teeth. European Society for the Study of Human Evolution, Leiden, Netherlands. (oral presentation). PESHE. 6: 14.
- Bailey SE**, Benazzi S, Mancuso G, Sorrentino R, Hublin J-J. 2017 Taxonomic differences in deciduous lower first molar crown outlines of *Homo sapiens* and *Homo neanderthalensis*. (oral presentation) Annual Meeting of the American Association of Physical Anthropologists. New Orleans, LA. Am J Phys Anthropol. 162(S64):251.
- Ortiz A, **Bailey SE**, Delgado-Burbano M, Zanolli C, Demeter F, Bacon A-M, Nguyen TMH, Nguyen AT, Zhang Y, Hublin J-J, Skinner MM. 2017. *Homo* or *Pongo*? Trigon morphology of maxillary molars may solve taxonomic controversies over isolated hominoid teeth from the Asian Pleistocene. European Society for the Study of Human Evolution, Leiden, Netherlands. PESHE. 6:140.
- Brophy JK, **Bailey SE**, Moggi-Cecchi J, Delezene LK. 2017. Morphometric assessment of *Homo naledi* deciduous molar teeth from Dinaledi Chamber, Rising Star cave system, South Africa. Annual Meeting of the American Association of Physical Anthropologists. New Orleans, LA. Am J Phys Anthropol. 162(S64):130.
- Brophy JK, **Bailey SE**, Moggi-Cecchi J, Delezene LK. 2017. Crown shape and relative cusp analyses of *Homo naledi* deciduous molar teeth from Dinaledi Chamber, Rising Star cave system, South Africa. European Society for the Study of Human Evolution, Leiden, Netherlands. PESHE. 6:30.
- Bailey SE**, Benazzi S, Hublin J-J. 2016. Taxonomic differences in deciduous lower second molar crown outlines of *Homo sapiens* and *Homo neanderthalensis*. European Society for the Study of Human Evolution, Madrid, Spain (oral presentation). PESHE: 5:39.
- Bailey SE**, Hublin J-J, Benazzi S. 2016. Geographic variation in crown shapes of upper first permanent molars of *Homo erectus* and later fossil *Homo*. *Homo erectus* 100 +25: International Senckenberg Conference – Tbilisi, Georgia. Poster.
- Bailey SE**, Benazzi S, Paul K, Astorino C, Hublin J-J. 2016. A morphometric approach to Butler's field concept: the deciduous and permanent molars. Invited symposium: Old Questions, New Approaches



- and New Solutions: Celebrating the 30th Anniversary of the Dental Anthropology Association. Annual Meeting of the American Association of Physical Anthropologists. Atlanta, GA. Invited symposium. *Am J Phys Anthropol.* 169(S62):86.
- Glaze E, **Bailey SE**. 2017. Patterns of molar expansion in megadont primates. Annual Meeting of the American Association of Physical Anthropologists. Atlanta, GA. *Am J Phys Anthropol.* 169(S62):156.
- Erlich D, **Bailey SE**. 2017. Investigating the effects of dental wear on the scoring of morphological traits. Annual Meeting of the American Association of Physical Anthropologists. Atlanta, GA. *Am J Phys Anthropol.* 169(S62):137.
- Ortiz A, **Bailey SE**, Skinner M, Hublin J-J. 2016. Homo or Pongo? Taxonomic discrimination of hominoid upper molars based on the internal surface of the mesial marginal ridge complex. Annual Meeting of the Paleoanthropology Society, Atlanta, GA. . (abstract: [www.paleoanthro.org](http://www.paleoanthro.org)).
- Ludeman E, Wang W, Li D, **Bailey SE**, Harrison T, Bae, C. 2015. Elliptical Fourier analysis of two hominoid teeth from Middle Pleistocene Sanxieshan Cave, Daxin, Guangxi, China. Annual Meeting of the Paleoanthropology Society, San Francisco, CA. (abstract: [www.paleoanthro.org](http://www.paleoanthro.org)).
- Bailey SE**, Benazzi SE, Buti L, Hublin J-J. 2015 Allometry and Tooth Shape of the Lower Deciduous M2 and Permanent M1. Annual Meeting of the American Association of Physical Anthropologists. St. Louis, MO. *Am J Phys Anthropol.* 156(S60):77. (Oral Presentation)
- Bae CJ, Wang W, Li D, **Bailey SE**, Ludeman E, Chen J, Benitez RA, Gutierrez E. 2015. Gaps in Chinese Paleanthropology. Annual Meeting of the American Association of Physical Anthropologists. St. Louis, MO. *Am J Phys Anthropol.* 156(S59):76. (Invited Symposium)
- Glaze E, **Bailey SE**. 2015. Predicting M1 crown area from dm2 in Modern and fossil *Homo*. Annual Meeting of the American Association of Physical Anthropologists. St. Louis, MO. *Am J Phys Anthropol.* 156(S59):147. (poster)
- Ortiz A, Pilbrow V, Villamil C, Korsgaard J, **Bailey SE**, Harrison T. 2015. The systematic status of *Bunopithecus sericus*, a Pleistocene gibbon from Chongqing Province, southern China. Annual Meeting of the American Association of Physical Anthropologists. St. Louis, MO. *Am J Phys Anthropol.* 156(S59):243.(Poster)
- Astorino C, Paul K, **Bailey SE**. 2015. The patterning cascade model and Carabelli's cusp expression in metamerer of the mixed human dentition: exploring a morphogenetic model. Annual Meeting of the American Association of Physical Anthropologists. St. Louis, MO. 156(S59):73. (Poster).
- Bae C, Wang W, Li D, **Bailey SE**, Ludeman E, Chen J, Benitez R, Gutierrez E. 2015. Gaps in Chinese Paleanthropology: A View from Guangxi. Annual Meeting of the American Association of Physical Anthropologists. St. Louis, MO. *Am J Phys Anthropol.* 125(S59) (Invited Symposium).
- Bailey SE**, Benazzi S, Souday C, Astorino C, Paul K, Hublin J-J. 2014. Taxonomic differences in deciduous upper second molar crown outlines of *H. sapiens*, *H. neanderthalensis*, and *H. erectus*. Annual Meeting of the American Association of Physical Anthropologists. Calgary, AB. *Am J Phys Anthropol.* 153:(58):71. (podium presentation).
- Crevecoeur I, Skinner MM, **Bailey SE**, Gunz P, Bortoluzzi S, Brooks AS, Burlet C, Cornelissen E, DeClerck N, Maureille B, Semal P, Vanbrabant Y, Wood B. 2014. First early hominin from Western Rift Valley (Ishango, Democratic Republic of Congo). Symposium Poster: The African Human Fossil Record, Toulouse, France
- Huffman M, Guatelli-Steinberg D, Hubbe M, Irish J, **Bailey SE**. 2014. The peopling of South America: Analysis of the Dental Morphology. Annual Meeting of the American Association of Physical Anthropologists. Calgary, AB. *Am J Phys Anthropol.* 153:(58):146.

- Ludeman EM, Harrison T, **Bailey SE**. 2014. Premolar lost, variation gained: Posterior dental proportions in anthropoids and testing adherence to a mammalian developmental model. Annual Meeting of the American Association of Physical Anthropologists. Calgary, AB. Am J Phys Anthrop. 153:(58):172. (poster)
- Skinner MM, Ludeman EM, **Bailey SE**, Hublin J-J. 2014. Cusp 6 variation in the hominin clade: insights and implications revealed at the enamel-dentine junction. Annual Meeting of the American Association of Physical Anthropologists. Calgary, AB. Am J Phys Anthrop. 153:(58):241.
- Bailey SE**, Weaver TD, Hublin J-J. 2013. How modern are the earliest *Homo sapiens*? European Society for Human Evolution, Vienna, Austria. PESHE. 3:19
- Bailey SE**, Benazzi S, Astorino C, Paul K, Hublin J-J. 2013. More insights from above: comparison of upper deciduous second molar and permanent first molar morphology in *Homo neanderthalensis* and *Homo sapiens*. Annual Meeting of the Paleoanthropology Society. Honolulu, HI. (abstract: [www.paleoanthro.org](http://www.paleoanthro.org)).
- Paul K, **Bailey SE**. 2013. Comparative analysis of intercuspal dimensions and crown morphology between the deciduous second molar and permanent first molar within the same maxillary arcade. Annual Meeting of the American Association of Physical Anthropologists. Knoxville, TN. Am J Phys Anthrop. 150(S56):217.
- Oldershaw L, **Bailey SE**, White RW. 2013. Root dentine translucency aging in burned human teeth: A preliminary study. Annual Meeting of the American Association of Physical Anthropologists. Knoxville, TN. Am J Phys Anthrop. 150(S56):211.
- Harvati K, Darlas A, **Bailey SE**, Rein T, ElZaatari S, Fiorenza L, Kullmer O, Psathi E. 2013. New Neanderthal remains from Kalamakia cave, Mani Peninsula, Southern Greece. Annual Meeting of the American Association of Physical Anthropologists. Knoxville, TN. Am J Phys Anthrop. 150(S56):144.
- Bailey SE**. 2012. Who are you calling "modern"? An assessment of dental morphology and metrics of *Homo sapiens*. European Society for Human Evolution (ESHE), Bordeaux, France. Published abstract. 2:33.
- Bailey SE**. 2012. Origins of dental modernity. Annual Meeting of the American Association of Physical Anthropologists, Portland, OR. April 2012. Am J Phys Anthrop. 149(S55). 89.
- Harvati K, Darlas A, **Bailey SE**, Rein T, El Zaatari S, Fiorenza L, Kullmar O, Psathi E. 2012. New Neandertal remains from Mani Peninsula, S. Greece. European Society for Human Evolution. Bordeaux, France. 2:97.
- Bailey SE**. 2011. What does it mean to be dentally 'modern'? International Symposium of Dental Morphology. Newcastle-on-Tyne, UK.
- Bailey SE**, Hublin JJ. 2011. Thinking outside the European box: dental metrics and morphology of African Middle Pleistocene hominins. Annual Meeting of the American Association of Physical Anthropologists. Minneapolis, MN. Am J Phys Anthrop. 144(S52): 80
- Smith F, **Bailey SE**, Kandel AW, Masri M, Bretzke K, Conard NJ. 2011. Late Epipaleolithic infant remains from Kaus Kozah Cave, southwestern Syria. Annual Meeting of the American Association of Physical Anthropologists. Minneapolis, MN. Am J Phys Anthrop. 144(S52): 205
- Souday C, **Bailey SE**. 2011. Size and shape analysis of second deciduous molars in the genus *Homo*. Annual Meeting of the American Association of Physical Anthropologists. Minneapolis, MN. Am J Phys Anthrop. 144(S52): 209.

- Bailey SE**, Skinner MM, Hublin JJ. 2010. The mid-trigonid crest of Neandertals and modern humans: concordance between the enamel and dentine surfaces. Annual Meeting of the American Association of Physical Anthropologists. Albuquerque, NM. *Am J Phys Anthropol.* 141(50): 13-14.
- Ortiz A, Skinner MM, **Bailey SE** and Hublin JJ. 2010. Carabelli's trait expression at the enamel-dentine junction (EDJ) and outer enamel surface (OES) of *Pan* maxillary molars. Annual Meeting of the American Association of Physical Anthropologists. Albuquerque, NM. *Am J Phys Anthropol.* 141(50):219.
- Bailey SE**. 2009. Thinking outside the "European" box: dental morphology of African and Asian Middle to Late Pleistocene hominins. Presented at the International Symposium on Paleoanthropology in Commemoration of the 80<sup>th</sup> Anniversary of the Discovery of the First Skull of Peking Man., Beijing, China.
- Coppeto, DJ, **Bailey SE**, Seselj, M and Harcourt-Smith W. 2009. Sexual dimorphism in sacral curvature and its relationship to bipedalism and obstructs. Annual Meeting of the American Association of Physical Anthropologists. Chicago, IL. *Am J Phys Anthropol.* 138(S48): 131
- Ortiz A and **SE Bailey**. 2009 Inter- and intra-specific non-metric dental variation in great apes: implications for the study of the early hominins. Annual Meeting of the Paleoanthropology Society, Chicago, IL (abstract: [www.paleoanthro.org](http://www.paleoanthro.org)).
- Bailey SE**, Quam R, and Wood BA. 2008. Evolution of M<sup>1</sup> cusp proportions in the genus *Homo*. Annual Meeting of the American Association of Physical Anthropologists. Columbus, OH. *Am J Phys Anthropol.* 135(S46): 62-63
- Ortiz A and **SE Bailey**. 2008. Intra- and Inter-regional dental morphological variation in South American populations. Annual Meeting of the American Association of Physical Anthropologists. Columbus, OH. *Am J Phys Anthropol* 135(S46):166
- Smith FH, **Bailey SE**, Feine SC, Hillgruber KF and Schmitz RW. 2008. New fossils and studies confirm the affinities of the human remains from the Neandertal type site (Kleine Feldhoffer Grotte), Germany. Annual Meeting of the American Association of Physical Anthropologists. Columbus, OH. *Am J Phys Anthropol.* 135(S46): 196
- Bailey SE** and Hublin J-J. 2007. Do Qafzeh and Skhūl represent the ancestors of Upper Paleolithic modern humans? A dental perspective. Annual Meeting of the American Association of Physical Anthropologists. Philadelphia, PA. *Am J Phys Anthropol.* 132(S44): 67
- Hublin J-J, **Bailey SE**, Olejniczak AJ, Smith TM, Verna C, Sbihi-Alaoui FZ and Zouak M. 2007. Dental evidence from the Aterian human populations of Morocco. *Modern Origins: A North African Perspective*. Leipzig, Germany.
- Bailey SE**, Glantz M, Viola B, Krivoshapkin A, Wrinn P. 2006. The affinity of the dental remains from Obi-Rakhmat Grotto, Uzbekistan. Poster: 150 Years of Neanderthal Discoveries: Early Europeans – Continuity and Discontinuity. Bonn, Germany.
- Bailey SE**, Smith F, Schmitz R. 2006. New teeth from the Kleine Feldhofer Grotte, Neander Valley, Germany. Poster: 150 Years of Neanderthal Discoveries: Early Europeans – Continuity and Discontinuity. Bonn, Germany.
- Bailey SE**. 2006. Who made the early Aurignacian? Evidence from isolated teeth. Podium presentation: Annual Meeting of the American Association of Physical Anthropologists. Anchorage, AK. *Am J Phys Anthropol.* 129(S42): 60.
- Bailey SE** and Weaver TD. 2006. Who made the early Upper Paleolithic? Wisdom of the teeth. Podium presentation: Annual Meeting of the Paleoanthropology Society. San Juan, PR, (abstract: [www.paleoanthro.org](http://www.paleoanthro.org)).

- Hublin J-J, Soressi M and **Bailey SE**. 2006. Spatial analysis of Human Remains from the Châtelperronian Layers at Arcy-sur-Cure and Saint-Césaire (France). Podium presentation: Annual Meeting of the Paleoanthropology Society. San Juan, PR, (abstract: [www.paleoanthro.org](http://www.paleoanthro.org)).
- McPherron SP, **Bailey SE**, Claud E, Hublin J-J, Jaubert J, Mallye J-B, Rendu W, Richards M, Richter D, Soressi M, Steele T, Taylor G, Texier J-P. 2006. New Excavations at the Paleolithic Site of Chez-Pinaud Jonzac (Charente-Maritime, France). Podium presentation: Annual Meeting of the Paleoanthropology Society. San Juan, PR. (abstract: [www.paleoanthro.org](http://www.paleoanthro.org)).
- Bailey SE**. 2005. Inter- and intraspecific variation in *Pan* tooth crown morphology: implications for Neandertal taxonomy. Podium presentation: Annual Meeting of the American Association of Physical Anthropologists. Milwaukee, WI. *Am J Phys Anthropol*.126 (S40):71.
- Bailey SE** and Hublin J-J. 2005. The dental remains from Arcy-sur-Cure. Podium presentation: Neandertals Revisited: New Approaches and perspectives. New York, NY.
- Pilbrow VC and **Bailey SE**. 2005. Patterns of intraspecific variation in dental metrics of *Gorilla gorilla*, *Pan troglodytes* and *Homo sapiens*: A comparison using Wright's (1969)  $F_{st}$  statistic. Poster: Annual Meeting of the Paleoanthropology Society. Milwaukee, WI. (abstract: [www.paleoanthro.org](http://www.paleoanthro.org)).
- Bailey SE**. 2004. Derived morphology in Neandertal maxillary molars: Insights from above. Podium presentation: Annual Meeting of the American Association of Physical Anthropologists. Tampa, FL. *Am J Phys Anthropol* 123(S38): 57.
- Bailey SE** and Hublin J-J. 2004. Revisiting the last Neandertals. Podium presentation: Neanderthals and modern humans meet? Blaubeuren, Germany.
- Trinkaus E, Milota S, Gerhase M, Sarcina L, Bilgar A, Moldovan O, Rodrigo R, **Bailey SE**, Franciscus RG, Ponce de León M, Zollikofer CPE. 2004. Bones, Bodies and Bears in the Pesteră cu Oase, Romania. Podium presentation: Meeting of the Paleoanthropology Society, Montreal, ON (abstract: [www.paleoanthro.org](http://www.paleoanthro.org)).
- Bailey SE**. 2003. Quantitative analysis of the  $P_4$  shape in Neandertals and anatomically modern humans. Poster: Annual Meeting of the American Association of Physical Anthropologists. Tempe, AZ. *Am J Phys Anthropol*. 120(S36):62.
- Bailey SE**. 2001. Reconstructing Neandertal postcanine trait polarity: the cheek teeth speak. Podium presentation: Annual Meeting of the Paleoanthropology Society, Kansas City, MO. *J Hum Evol*. 40:A2.
- Bailey SE**. 2000. Implications of dental morphology for population affinity among Late Pleistocene and recent humans. Podium presentation: Annual Meeting of the Paleoanthropology Society, Philadelphia, PA. *J Hum Evol*. 38: A5-A6.
- Bailey SE** and Turner II CG. 1999. A new look at some old teeth: An analysis of non-metric dental traits in Neandertals and Old World modern humans. Poster: Annual Meeting of the American Association of Physical Anthropologists, Columbus, OH *Am J Phys Anthropol*. 108(S28): 86.
- Bailey SE**, Turner II CG and du Souich P. 1998. Dental Morphological Evidence for Population Affinities of the Iberian Peninsula (100 BC- 1300 AD) and Western Balearic Islands. Podium presentation: Annual Meeting of the American Association of Physical Anthropologists, Salt Lake City, UT *Am J Phys Anthropol*.105(S26):65.
- Bailey SE**, Turner II CG and Williams RC. 1997. Segregation analysis of the triform dental variant. Poster: Annual Meeting of the American Association of Physical Anthropologists, St. Louis, MO. *Am J Phys Anthropol*.104(S24):70.

**Bailey-Schmidt SE.** 1995. Population distribution of the tuberculum dentale complex and anomalies of the anterior maxillary teeth. Poster: Annual Meeting of the American Association of Physical Anthropologists, Oakland, CA Am J Phys Anthropol. 38(S1):60.

## Funding

**Arts and Sciences Innovation Grant**, Converting remote laboratory sections for 2020  
Human Evolution course (\$2080)

**Principal Investigator** National Science Foundation. [\$30,773] *Histological and elemental markers of reproductive physiology in mineralized hard tissues* -- award #2018357. (Dissertation Improvement grant for Paola Cerrito) 2020

**Wenner Gren Workshop: Revisiting South American Origins** (\$20K, revise/resubmit) 2019

**Senior Personnel** *Homo naledi* Dental Anthropology workshop Wenner Gren funded [\$20K] 2016  
PIs: Matthew Skinner (University of Kent) and Luke Delezene (University of Arkansas)

**Principal Investigator** University Research Challenge Fund [\$9K] Research for book: *Evolution of the Human Dentition*, Cambridge University Press. 2015

**Principal Investigator** National Science Foundation *The Influence of development and homology on hominin molar morphological diversity* (Dissertation Improvement grant for Alejandra Ortiz) 2013

**Co-Principal Investigator** LSB Leakey Foundation (PI Varsha Pilbrow), Constructing reference plaques for scoring great ape dental morphology [\$10K] 2011

**Principal Investigator** LSB Leakey Foundation, Research on the deciduous dentition of fossil hominins [\$26K] 2009

**Senior Personnel** Science Foundation of Ireland Research Frontiers Programme 2008  
PI: Ron Pinhasi, University of Cork. The evolutionary history of Neanderthals and their potential interface with early modern humans in the southern and northern Caucasus [€241,591]

**Principal Investigator:** Philanthropic Educational Organization. Dissertation Writing [\$10K] 2001

**Principal Investigator:** LSB Leakey Foundation, Dissertation Research [\$20K] 2000-2001

**Principal Investigator** National Science Foundation, Dissertation Improvement Grant 2000-2001

**Principal Investigator** Sigma Xi Scientific Research Association Grants-In-Aid of Research 1999  
Regional and National: Dissertation/Pilot Study

Arizona State University Graduate College, Research and Development Grant 1998

Associated Students of Arizona State University, MA thesis research [\$1.5K] 1994

## Honors and Awards

**Arts and Sciences Teaching Innovation Award.** Creative and Entrepreneurial approaches to remote learning 2021

**Golden Dozen Teaching Award**, NYU, College of Arts and Sciences 2016

**CUPS** CG Turner II Prize for best Dental Anthropology Poster/Presentation AAPA 2015

**JHE Top Reviewer** Award (for “exceptional contribution to the quality of JHE”) 2009

NSF ADVANCE Women in Science travel grant (Conference in Beijing, China)	2009
<b>Goddard Junior Faculty Fellowship</b> (one semester research leave)	2008
<b>Fellow</b> , Kavli Frontiers of Science, National Academy of Sciences	2007
<b>Recipient</b> of the 8 <sup>th</sup> annual <b>Förderpreis für Ältere Urgeschichte und Quartärökologie</b> , University of Tübingen (€5000 award)	2006
<b>AA Dahlberg Prize</b> “Best student paper” (\$100 award)	2000
<b>Recipient of Regents’ Scholarship</b> for Graduate Study	1993
Graduated Summa Cum Laude from Temple University	1992
The George Washington University, Travel Award	2004
Paleoanthropology Society, Travel Award	2004
Northern Arizona University, Department of Anthropology: Travel Award	1998;
1999	
Coconino Community College: Travel Award	1998
Arizona State University, Department of Anthropology: Travel Award	1995, 97, 98, 99, 2000, 01

## Invited Presentations

Dental Anthropology: The whole tooth and nothing but the tooth Living U, Living Branches, Dock Woods	2021
What does it mean to be 1%-4% Neanderthal? West Orange High School Science Honor Society	2021
Making sense of Neanderthals: What we have learned from bones teeth and genes Archaeological Institute of America (AIA), Wagner College, Staten Island, NY	2018
Neanderthals, ‘hobbits’ and Neo: Nothing but the tooth SUNY, University at Buffalo	2018
New insights on modern human origins from the viewpoint of Morocco SUNY, Stony Brook Paleoanthropology Lecture series	2017
Rewriting Modern Human Origins: Insights from a New Discovery in Morocco. Leakey Foundation Speaker Series. Houston Museum of Natural Sciences.	2017
New clues about modern human origins: Insights from Morocco. University of New Mexico	2017
Earliest Evidence for <i>H. sapiens</i> : The view from Morocco, AIA, St. Louis MO	2017
The curious case of <i>Homo naledi</i> , Harvard University, Cambridge, MA	2016
A morphometric approach to Butler’s field concept: the deciduous and permanent molars. Invited symposium: American Association of Physical Anthropologists	2016
Making sense of Neanderthals: what we have learned from bones, teeth and genes University of Texas, Austin Colloquium series.	2015
Dinner with Eight Strangers Program – “Women in STEM” New York University	2015
Making sense of Neanderthals: what we have learned from bones, teeth and genes. Secret Science Club, Bell House, Brooklyn NY	2015
Keynote speaker: New York University, Dean’s Undergraduate Conference “Keep your eyes on the road and not the mountain that lies ahead”	2014
Smart Mouths: Using teeth to understand human evolution Human Paleobiology lecture series, George Washington University, Washington DC	2014
What does it mean to be 2-4% Neandertal? Archaeological Institute of America, New York	2014

Dental Paleoanthropology: Sinking our teeth into human evolution. Binghamton University, NY. EVOS (Evolutionary Studies Program) Lecture Series	2013
Dental Perspectives on Human Evolution. Columbia University Medical Center, NY	2012
The little foot of Flores: Hobbit or Human? Archaeological Associates of Greenwich, CN	2009
Where did we come from, what are we, where are we going? National Academy of Sciences, Kavli New Frontiers of Science, Irvine]	2007
Neanderthals and modern human origins: Hanging on by the skin of their teeth? Rutgers University	2006
Using dental morphology to identify Neanderthals and modern humans University of Tübingen	2006
Dental perspectives on human evolutionary research. New York University	2005
A dental perspective on modern human origins. University College London	2004
Ötzi the Iceman: What can a 5,000 year old mummy tell us about life and death in the past? Phi Beta Kappa Association, Washington DC.	2004
Who were the Neanderthals? Columbia University	2004
Our Place in Nature. Kenyon College	2004
A dental perspective on Neanderthals and their role in modern human origins Ohio State University	2003
Pleistocene human evolution: A dental perspective. Washington University	2003
Neanderthals and modern human origins: Hanging on by the skin of their teeth? Smithsonian Institution	2002
Neanderthal dental morphology and its implications for modern human origins University of New Mexico	2001
What can teeth tell us about modern human origins? Northern Arizona University	1999

## **Service**

### *Editorships*

Direct Submission Editor, Proceedings of the National Academy of Science	August 2021
Editorial Board, MGFU Mitteilungen der Gesellschaft für Urgeschichte	2021-
Editorial Board, Current Anthropology	2018-
Editorial Board, Paleolithic Archaeology	2017-
Editorial Board, American Journal of Physical Anthropology	2019-2021
Editorial Board, Yearbook of the Physical Anthropology	2013-2017
Associate Editor, Journal of Human Evolution	2013-2016

### *Journal Articles Refereed*

American Journal of Physical Anthropology  
 American Journal of Primatology  
 Anatomical Record  
 Anthropological Review

BMC Biology  
 Current Anthropology  
 Evolutionary Anthropology  
 Homo  
 Human Biology  
 International Journal of Osteoarchaeology  
 Journal of Anatomy  
 Journal of Human Evolution  
 Journal of Paleolithic Archaeology  
 Open Anthropology Journal  
 Nature  
 PeerJ  
 PLoS One  
 PNAS  
 Science  
 South African Journal of Science

*Grants Refereed*

National Science Foundation (2007, 2009, 2012, 2013, 2014)  
 LSB Leakey Foundation (2009, 2012, 2013, 2016, 2018, 2019)

*Committees*

**Professional**

<u>Member</u> , Executive Committee, AABA	2020-22
<u>Chair</u> , Professional Development Committee, AABA	2020-22
<u>Co-Chair</u> , AAPA Auction committee	2018-
<u>Member</u> AAAS Electorate Nominating Committee	2016-2019
<u>Steering Committee (member)</u> AAPA Women's Mentoring Workshop	2013-14
<u>Member</u> AAPA Scientific Program Committee	2011-12
<u>Steering Committee (member)</u> PAWMN (Women in Physical Anthropology)	2011-
<u>Steering Committee (leader)</u> PAWMN (Women in Physical Anthropology)	2010-2011
<u>Co-chair</u> , Women of Biological Anthropology Group, NYU/Wenner Gren	2007-2009
<u>Colloquium organizer</u> New York Consortium for Evolutionary Primatology (NYCEP)	2006-2008

**University**

<u>Co-Chair</u> , Undergraduate Curriculum Committee	2022-23
<u>Member</u> , Advisory Committee on Policy and Planning	2022-23
<u>Member</u> , Faculty Senate	2021-23
<u>Member</u> , University Senate Committee, Community Standards Committee	2022-23
Member, University Committee, Affordability Steering Committee	2021-23
<u>Member</u> , T-FSC, Educational Policies & Faculty/Student Relations	2022-23
<u>Member</u> , T-FSC, Grievance Committee	2021-22
<u>Member</u> , Undergraduate Curriculum Committee	2017-19, 2021-23
<u>Member</u> , Outstanding Dissertation Award Committee	2022
<u>Member</u> , CAS Student Conduct Panel	2018-19, 2020-21



<u>Chair</u> , Academic Standards Committee	2018-20
<u>Member</u> , Foundations of Scientific Inquiry Steering Committee	2010-23
<u>Member</u> , Academic Standards Committee	2013-16, 2017-20
<u>Member</u> , Academic Program Assessment Committee on Core requirements, CAS	2018-19
<u>Member</u> , CAS Mentorship Task Force	2018-19
<u>Member</u> , Distinguished Teaching Award Committee	2017-18
<u>Judge</u> , CAS Dean's Undergraduate Conference	2014-19
<u>Member</u> , CAS Academic Program Assessment Committee University Core	2018-19
<u>Member</u> , CAS Mentorship Task Force, Student-faculty mentorship subgroup	2018-19
<u>Member</u> , GSAS Mentoring Guideline Master's Committee	2018-19
<u>Member</u> , Gender Equity Committee	2010-218
<u>Mentor</u> , Undergraduate Mentor Program	2008-22
<u>Member</u> , GSAS Awards Committee	2012-2015
<u>Member</u> , Committee on Student Discipline	2007-09, 2013-15
<b>Department of Anthropology</b>	
<u>Director</u> , Center for the Study of Human Origins	2021-2023
<u>Associate Chair</u>	2018-2023
<u>Global Coordinator</u>	2020-2022
<u>CSHO Colloquium Committee</u>	2021-2022
<u>Higham Promotion Committee (Chair)</u>	2021-2022
<u>Iovita Tenure Committee</u>	2021-2022
<u>PhD Admissions Committee (Chair)</u>	2020-2022
<u>Director of Undergraduate Studies</u>	2016-2018
<u>Member</u> , Post Tenure Mentoring Committee	2017
<u>Member</u> , Departmental Graduate Admissions Committee	2011,-12,-17,-18, 20, 21, 22
<u>Member</u> Departmental Undergraduate Curriculum Committee	2007-2009
<u>Member</u> Departmental Admissions Committee	2010-2011
<u>Lecture Series Organizer</u> Center for the Study of Human Origins	2006-2009
<i>Meetings/Colloquia organization</i>	
<b>Invited Panelist</b> - Women's Professional Leadership Panel, New YO	2017
<b>Session Chair</b> - European Society for Human Evolution (ESHE), Madrid Spain	2016
<b>Session Chair</b> – Dental Morphology Including Clinical Aspects, International Symposium of Dental Morphology/International Society for Paleontology, Zagreb, Croatia	2014
<b>Session Chair</b> – “Paleoanthropology: Later Human Evolution” AAPA- Calgary	2014
<b>Session Organizer</b> – “Papers in Memory of Elizabeth Harmon” AAPA - Albuquerque	2010

*Media, Interviews, Podcasts, Appearances*

New York Times, Carl Zimmer: *Tooth of an Ancient Girl Fills Gap in Human Family Tree* May 2022  
[https://www.nytimes.com/2022/05/17/science/science-discovery-family-tree.html?fbclid=IwAR1Ayu\\_qOik5pGe08mAxshVGW6AHkHgxF2cVHP6RtXJHiWc3iNqOU8Ao9s](https://www.nytimes.com/2022/05/17/science/science-discovery-family-tree.html?fbclid=IwAR1Ayu_qOik5pGe08mAxshVGW6AHkHgxF2cVHP6RtXJHiWc3iNqOU8Ao9s)

LiveScience, Charles Choi: *Ancient tooth of mysterious Denisovan girl possibly found* May 2022  
<https://www.livescience.com/possible-denisovan-tooth-found-laos>

Science, Michael Price: *This unusual tooth is the first fossil evidence of Denisovans in Southeast Asia:* May 2022  
<https://www.science.org/content/article/unusual-tooth-first-fossil-evidence-denisovans-southeast-asia>

Science, Michael Price: *Did taste for blood help humans grow big brains* January 2022  
<https://www.science.org/content/article/did-taste-blood-help-humans-grow-big-brains-story-isn-t-so-simple-study-argues>

Inverse, Lauren Leffer: *Did eating meat make us human?* January 2022  
<https://www.inverse.com/science/new-study-debunking-meat-made-us-human-hypothesis>

Featured guest, Lunch Break Science Live Broadcast, Leakey Foundation January 2022

New Scientist, Alison George, On *Homo longi* June 2021

NPR, Science Friday, Ira Flatow (*Talking Through the History of Our Teeth*) March 2021

Sciences et Avenir, Nicolas Gutierrez, *Comment des croisements successifs ont permis à l'Homme de coloniser la planète?* August 2019

The Atlantic, Interview Ed Yong, *A 210,000-year-old skull is the oldest Homo sapiens fossil found outside Africa* July 2019

Science Sessions podcast (PNAS), on *Rare Dental Trait Shows Archaic Introgression* July 2019

Dallas News, *Perot Museum announces it will exhibit two rare fossils from South Africa* July 2019

NPR, Science Friday, Ira Flatow (on *H. luzonensis*) April 2019

NPR, Christopher Joyce, *Ancient bones and teeth found in a Philippine cave may rewrite human history* April 2019

National Geographic, Michael Greshko, *New species of ancient hominin discovered in the Philippines* April 2019

China Dailey, Cornelia Zhu on *H. luzonensis* April 2019

NPR, Dan Charles *Human sound systems and bite configuration* March 2019

Wall Street Journal, Brianna Abbott, *Human Speech* March 2019

StarTalk All Stars, host Natalia Regan: *Humanoid Hybrids* September 2018

Inverse.com, interview with Sara Sloat: *Homo sapiens specialists* July 2018

Inverse.com, interview with Sarah Sloat: *Ancient skull shows evolutionary link between humans and "Lucy" hominins* June 2018

*That Human Show* with Natalia Reagan, Caveat, New York City May 2018

Newsweek, interview, Justin Maiure *Human Evolution* April 2018

Science Magazine, interview *Wooden tools and fire technology, Neanderthals* February 2018

Popular Science, interview: *The expansion of modern humans out of Africa* February 2018

La Recherche (France), interview: *Fossil maxilla from Misliya* February 2018

The Atlantic, interview: *180 ka fossils of modern humans outside of Africa* January 2018

Washington Post, interview: *The oldest modern humans outside of Africa* January 2018

You're the Expert podcast [www.theExpertShow.com](http://www.theExpertShow.com) Caveat, New York October 2017

National Public Radio, Taped radio program, *You're the Expert* September 2017

Freakonomics: Tell Me Something I Don't Know Show, Symphony Space, New York June 2017

Wisconsin Public Radio, Live Radio program *Kathleen Dunn Show* June 2017

Washington Post, interview: *Oldest H. sapiens fossils found in Morocco* June 2017

NPR: Science Friday: *Wisdom of the Teeth* (The Macroscopic Series) video June 2017

NPR: Science Friday with Ira Flatow (*Fossil finds could mean a wider cradle of humanity*) June 2017

StarTalk All Stars, host Natalia Regan: *The fossils in your mouth* June 2017

Christian Science Monitor, interview: *Just how earth shattering are those 300,000 year old Homo sapiens fossils?* June 2017

NPR Morning Ed., interview *Orangutan moms are the primate champs of breast feeding* May 2017

Christian Science Monitor, interview <i>How a 400,000-year-old skull fragment hints at ancient 'unified humanity'</i>	March 2017
Origin Stories, Leakey Foundation Podcast <i>Episode 16: Neanderthals</i>	July 2016
NPR interview: <i>When it came to food, Neanderthals weren't exactly picky eaters</i>	April 2016
Associated Press, interview: <i>Daoxian Teeth (earliest H. sapiens in China)</i>	October 2015
Washington Square News Commentary: <i>Homo naledi</i>	September 2015
NPR interview: <i>Were carbs a brain food for our ancestors?</i>	July 2015
Leonard Lopate Show (WNYC), radio interview <i>Please Explain Neanderthals</i>	February 2015
Science World Report	January 2015
History Channel, TV interview for <i>In Search of the Lost Giants</i>	November 2014
Featured in New York University Research Digest by James Dewitt <i>Early Humans Were Westward Ho, Dental Records Reveal</i>	April 2014
WNYU 89.1, Radio interview <i>Evolution of wisdom teeth</i>	November 2013
Science AAAS, interview <i>How long did Neanderthals breast feed?</i>	July 2013
Associated Press, interview <i>New look at fossils yields oldest modern Europeans</i>	November 2011
Voice of America , interview <i>Centuries-Old cave reveals secrets of ancient humans</i>	January 2011
Earth Magazine, interview <i>Qesem Cave</i>	January 2011
Associated Press, interview <i>Qesem Cave</i>	January 2011
NPR interview <i>Food for Thought: Meat-based diet made us smarter</i>	August 2010
NPR interview: <i>Dental perspectives on human evolution</i>	September 2009
PBS/Nova TV Interview for "The Hobbit Enigma"	November 2008
History Channel, TV Interview for "Clash of the Cavemen"	May 2008
ScienceNOW Daily News, interview "Tempest in a Hobbit Tooth"	April 2008
ABC Radio National, Radio interview In Conversation with Alison Leigh	January 2008
National Geographic Channel, TV interview for "Is it Real: Russian Bigfoot"	September 2007
<i>Outreach</i>	
World Science Festival NYU lab tour	2019
World Science Festival: Anthropologist's apprentice: What is a Paleoanthropologist?	2019
	2016
Leakey Foundation – Outreach presentations at: Chinquapin Preparatory School, Bellaire High School and St. John's School	2017
World Science Festival <i>Who Runs the Lab</i> (Women in Science-run NYU lab tours)	2017
World Science Festival Ultimate Street Fair (with WINS) <i>What's in my water?</i>	2017
World Science Festival: Anthropologist's apprentice: Identifying bones	2016
	2016
Moderator, World Science Festival "Pioneers in Science" Interview with Lee Berger	2015
Who Runs the Lab? (with The World Science Festival) Organized tours of NYU science labs run by women for NYC High Schools with lunch time brown bag talk	2015
Meet the Scientist, American Museum of Natural History	2014
Women in Science STEM presentation, The Dalton School, New York, NY	2014
Invited Participant Women's Mentoring Workshop (AAPA, Albuquerque)	2010
Panelist, AFA Workshop on Negotiating Skills for Academic Women (AAA, Philadelphia)	2009

### *Other*

CASHP Secretary. George Washington University, Washington, DC	2002-2004
Chair, Dental Anthropology Poster Session at the 2003 annual meeting of the American Association of Physical Anthropologists	2003
Assistant Editor, Dental Anthropology	1993-1996
Secretary-Treasurer, Dental Anthropology Association	1995-1997
New Faculty Mentor. Coconino Community College, Flagstaff, AZ	1999
Continuing education courses for Coconino Community College faculty: "Introduction to using multimedia in the classroom"	1998

### **Professional Organizations**

Member, American Association for the Advancement of Science (AAAS)	2016-
Member, Dental Anthropology Association	1992-
Member, American Association of Physical Anthropologists	1994-
Member, Paleoanthropology Association	1999-
Member, European Society for Human Evolution	2012-
Member, Sigma Xi Scientific Research Association	1998-
Member, Phi Kappa Phi Honor Society	1992-1998

### **PhD Advisement (committee chair)**

Elissa Ludeman  
Emma Kozitsky  
Clare Kimock  
Paola Cerrito  
Alejandra Ortiz (2016)

### **MA Advisement (committee chair)**

Jasmine Hernandez  
Lane Prause  
Paul Mensah  
Amanda Brady  
Vanessa Graves (2018)  
Justin Goldstein (2017)  
Rachel Kalisher (2017)  
Dan Ehrlich (2016)  
Kaitlin McGuire (2016)  
Emma Lagan (2016)  
John DiMaggio (2013)  
Angela Mallard (2011)  
Leigh Oldershaw (2009)

### **Undergraduate Independent Study and Honors Theses**

2017 Adriana Borys (Honors Thesis reader)  
2016 Kate Ryan (Honors Thesis reader)  
2015 Evelyn Glaze (Honors Thesis chair)  
2014 Jessica Korsgaard (Honors Thesis chair)  
2013 Evelyn Glaze (Independent Study) The deciduous lower second molar from Longtanshan

2012 Jessica Sherman (Independent Study) The relationship between crown size and cusp number in recent human lower molars  
2012 Rebecca Minorini (Honors Thesis chair) The effect of cranial deformation on brain size  
2009 Kate Carter: (Honors Thesis, chair) Model of dental occlusion in Tarsius  
2008 Kater Carter: (Independent Study) A metric analysis of familial variation associated with hypocone and parconid evolution (2008).  
2008: Daniel Coppeto (Honor Thesis, chair) Sexual dimorphism in the curvature of the sacrum: The effects of bipedalism and obstetrics  
2007: Alejandra Ortiz (Independent Study) South American population prehistory viewed from the dentition  
2006: Angana Homchaudhuri (Independent Study) An investigation into dental anomalies and congenital disease

## External PhD Reviewer

2020 Nick Lashinsky, University of California, Davis. Thesis Chair: Timothy Weaver  
2021 Tom Davies, University of Kent. Thesis Chair: Matthew Skinner

## Courses Taught

### *New York University*

Fossil Evidence for Human Evolution (UG)  
Human Origins (UG - CORE)  
Human Evolution (UG)  
Freshman Seminar: Science and Pseudoscience: Why People Believe Weird Things (UG)  
Dental Anthropology (G/UG)  
Paleoanthropology: Problems and Perspectives (G)  
Integrative Paleoanthropology II – Early Pleistocene - Holocene (G)  
Neanderthal Paleobiology (G)  
Evolutionary Morphology (G)  
Interpreting the Skeleton (G)

### *The George Washington University*

Human Evolutionary Anatomy (UG)  
Biological Anthropology (UG)

### *Northern Arizona University*

Humankind Emerging (UG)  
Physical Anthropology I: Human Origins (UG)  
Physical Anthropology II: Human Variation (UG)

### *Others*

Human Origins and the Development of Culture (Arizona State University, Mesa Community College, Coconino Community College, Glendale Community College)  
Introduction to Cultural Anthropology (Coconino Community College)  
Magic, Witchcraft and Healing (Coconino Community College, Mesa Community College)

## Research Interests

Neanderthal evolution, variation and extinction  
Modern human origins, dispersals and population dynamics  
Dental morphology and morphometrics of human and non-human fossil and extant primates  
Peopling of the New World  
Taxonomy and phylogenetic relationships of hominins  
Extant and extinct ape dental morphological variation

Forensic Anthropology