

BETH KOONTZ SCAFFIDI

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EDUCATION

- 2018 PhD, Vanderbilt University, Department of Anthropology
(Center for Latin American Studies Certificate, Certificate in College Teaching)
Dissertation: *Networks of Violence: Bioarchaeological and Spatial Perspectives on Physical, Structural, and Cultural Violence in the Pre- and Early Wari eras in the Majes Valley, Peru*
- 2012 MA, Vanderbilt University, Department of Anthropology
- 2006 JD, University of New Hampshire School of Law
- 2002 BA, University of North Carolina, Chapel Hill, Anthropology and Dramatic Art

ACADEMIC POSITIONS HELD

Arizona State University

- 2018-2020 National Science Foundation Postdoctoral Fellow, Archaeological Chemistry Laboratory, School of Human Evolution and Social Change
- 2018 Postdoctoral Scholar, Center for Bioarchaeological Research, School of Human Evolution and Social Change

Vanderbilt University

- 2016-2017 Instructor, Department of Anthropology
- 2014-2018 GIS Consultant, Department of Thoracic Surgery, Vanderbilt Medical Center
- 2012-2014 Graduate Teaching Fellow, Center for Teaching
- 2012-2014 Science Teaching Fellow, Center for Science Outreach
- 2012-2014 Interim GIS Administrator, Peabody Library
- 2010-2014 Instructor, Programs for Talented Youth
- 2008-2015 Teaching and Research Assistant, Department of Anthropology

Colorado College

- 2015-2016 GIS Administrator, Department of Information and Technology Services

ACTIVE RESEARCH PROJECTS

- 2019-present **Co-director**, Middle Horizon Caraveli Archaeological Project
In development and funding stages of new four-year archaeological project in Arequipa, Peru. Project examines a walled, hilltop settlement during the late Wari and post-Wari era to understand how the wane of Wari influence and a period of drought, cooling, and water insecurity impacted ritual, domestic practices, mobility, trade, health, and nutrition.
- 2018-present **Principal Investigator**, the Andean Paleomobility Unification (APU) Project
Developing collaborative, mobile GIS-based field database for baseline isotope sample collection. Analyzing plant, faunal, and water samples for bioavailable strontium and oxygen isotope ratios. Developing geostatistical isoscape models for oxygen and strontium isotope systems in the Andes to enable probabilistic geolocation of human remains and artifacts from archaeological and forensic contexts throughout the Andes.
- 2014-present **Director**, Lower Majes Valley Archaeological Project (Proyecto Arqueológico Uraca)
Funded and directed excavation of a cemetery to understand how Wari expansion impacted mortuary practices, inter-regional connections, inter- and intra-group violence, and the emergence of social inequality using grave goods, diet, and health as proxies.

PEER-REVIEWED JOURNAL ARTICLES (3)

3. 2019 **Beth K. Scaffidi**, “Spatial Paleopathology: A Geographic Approach to the Etiology of Cribrotic Lesions in the Prehistoric Andes.” In *Advances in South American Paleopathology* co-edited by Haagen Klaus, Marla Toyne, and Melissa Murphy. *International Journal of Paleopathology* 0: 0-00.
2. 2018 Amelia Maiga, Stephen Deppen, **Beth K. Scaffidi**, John Baddley, Melissa Aldrich, Robert Dittus, Eric Grogan, “Mapping *Histoplasma capsulatum* exposure, United States.” *Emerging Infectious Diseases* 24(10): 1835-1839.
1. 2012 Larissa Desantis, Rachel Tracy, **Beth K. Scaffidi**, John Roseberry, Matthew Velasco Mammalian niche conservation through deep time. *PloS ONE* 7(4): e35624.

MANUSCRIPTS IN PRESS, REVIEW, OR PREPARATION (7)

- In press **Beth K. Scaffidi**, “Power, Mediation, and Transformation: Dismembered Heads from Uraca (Majes Valley, Peru) and the Andean Feline-Hunter Myth.” Manuscript in press in *The Poetics of Processing: Memory Formation, Cosmology and the Handling of the Dead*, edited by Anna Osterholz. University Press of Colorado: Boulder, Colorado.
- In press **Beth K. Scaffidi**, “A Bioarchaeological Approach to Understanding Conflict and Collaboration: The Circulation of Violence as a Heterarchical Structure.” Manuscript accepted for publication in *Cooperative Bodies: Bioarchaeology and Non-Ranked Societies*, co-edited by Sara Becker and Sara Juengst, *American Anthropologist Vital Topics Forum*.
- In press James Zimmer-Dauphinee, **Beth K. Scaffidi**, and Tiffany Tung, “Finding Family using Forensic Isoscapes: The Application of Stable Oxygen Isotope Analysis in Peru.” Manuscript accepted for publication in *Humanitarian Forensic Science: Interacting with the Dead and the Living*, co-edited by Douglas Ubelaker and Roberto Parra. John Wiley & Sons: New York.
- In revision **Beth K. Scaffidi** and Tiffany Tung, “Endemic Violence in a Pre-Hispanic Community: A Bioarchaeological Study of Cranial Trauma from the Majes Valley, Peru.” Manuscript accepted with major revisions by the *American Journal of Physical Anthropology*.
- In review **Beth K. Scaffidi** and Kelly Knudson, “An Archaeological Strontium Isoscape for the Prehistoric Andes: Understanding Population Mobility Through a Geostatistical Meta-Analysis of Archaeological ⁸⁷Sr/⁸⁶Sr Values from Humans, Animals, and Artifacts.” Manuscript submitted to the *Journal of Archaeological Science*.
- In preparation **Beth K. Scaffidi**, Ashley Sharpe, George Kamenov, and John Krigbaum, “Geographic origins of human and feline trophy heads from the Lower Majes Valley, Peru: A multiple radiogenic isotope approach.” Manuscript to be submitted for publication in the *Journal of Archaeological Method and Theory*.
- In preparation Andrew Zipkin, **Beth K. Scaffidi**, Stanley Ambrose, Craig Lundstrom, Gideon Bartov, Elizabeth Gomani-Chindevbu, and Jessica Thompson, “Bioavailable Strontium Isotopes and Isoscapes for Archaeological Provenience in Northern Malawi: Challenges with Spatial Autocorrelation and Diagenesis in Archaeomaterials.” Manuscript to be submitted for publication in the *Journal of Archaeological and Anthropological Sciences*.
- In preparation Alexandra Greenwald, **Beth K. Scaffidi**, Tiffany Tung, and Kelly Knudson, “Parental Investment in Times of Violence: Weaning Age and Early Childhood Diet in the Majes Valley, Arequipa, Peru.” Manuscript to be submitted for publication in the *American Journal of Physical Anthropology*.

TECHNICAL REPORTS (2)

- 2018 **Beth K. Scaffidi** and Manuel Garcia Márquez, “Informe Final Sobre El Proyecto de Toma de Muestras de Uraca (Proyecto Arqueológico Uraca).” Lima, Perú.
- 2015 **Beth K. Scaffidi** and Manuel Garcia Márquez, “Informe Final Para el Ministerio de Cultura: Proyecto Arqueológico Uraca, Valle de Majes, Temporada 2014.” Lima, Perú.

TEXTBOOK PUBLISHED

- 2011 **Beth Koontz** and Michael McCord, *Criminal Law by Law in Motion*. Aspen Publishers, A Division of Wolters Kluwer Law and Business: New York.

EXTERNAL GRANTS AND FELLOWSHIPS

- 2018-2020 National Science Foundation Directorate for Social, Behavioral, and Economic Sciences proposal (award number 1809470) entitled *SBE Postdoctoral Research Fellowship: Isoscape Catchment Modeling in the Andes: Bioarchaeological and Forensic Applications of Oxygen, Strontium, and Dual-Isotope Methods for Geolocation of Skeletal Individuals* (\$148,000 awarded to Beth K. Scaffidi and Kelly Knudson)
- 2017-2018 Arizona State University Center for Bioarchaeological Research Pilot Grant proposal entitled *Baseline Radiogenic Strontium Isotope Ratios in the Andes* (\$4,530 awarded to Beth K. Scaffidi, Tiffany Tung, and Kelly Knudson)
- 2016-2017 National Science Foundation (award number 1137336) Inter-University Training for Continental-Scale Ecology Research-in-Residence grant proposal entitled *Dietary and Residential Shifting and the Environmental Contexts of Violence in the Prehistoric Majes Valley, Peru* (\$4,572 awarded to Beth K. Scaffidi and Kelly J. Knudson)
- 2016-2017 Graduate Women in Science Nell I. Mondy Fellowship (highest score) proposal entitled *Understanding the Impact of Wari Imperial Expansion (ca. 600 – 1100 AD) on Diet and Residential Mobility Through Bioarchaeological Isotope Analysis from Uraca in the Majes Valley of Arequipa, Peru* (\$9,990 awarded to Beth K. Scaffidi)
- 2016-2017 Wenner–Gren Engaged Anthropology Grant proposal entitled *Pathways to Preservation: Understanding Archaeological Looting in Arequipa, Peru Through a Cloud-based Collaborative Database and Public Outreach Film* (\$5,000 awarded to Beth K. Scaffidi)
- 2016-2017 Inter-University Training for Continental-Scale Ecology Research-in-Residence grant proposal for attendance at the University of Utah ITCE SPATIAL short course (\$2,690 awarded to Beth K. Scaffidi)
- 2013-2014 Wenner–Gren Dissertation Fieldwork Grant (award number 8680) proposal entitled *Networks of Violence: A Bioarchaeological Perspective on Structural Violence, Physical Violence, and Imperial Articulation in Prehistoric Arequipa, Peru* (\$19,300 awarded to Beth K. Scaffidi)
- 2013-2014 Sigma Xi Grant-in-Aid of Research proposal entitled *Biogeochemistry of Trophy Heads and Injured Males from the Wari-era Site of Uraca, Majes Valley, Arequipa, Peru (AD 600 - 1000)* (\$500 awarded to Beth K. Scaffidi)
- 2011-2012 The Explorer's Club Exploration Fund proposal entitled *Violence, Health, and Diet at the Edge of the Wari Empire* (\$2,500 awarded to Beth K. Scaffidi)
- 2010-2011 Tinker Foundation Field Research Grant proposal entitled *Structural Violence, Physical Violence and Imperial Articulations: A Bioarchaeological Perspective on Social Change in the Majes and Sigwas Valleys, Arequipa, Peru* (\$2000 awarded to Beth K. Scaffidi)
- 2009-2010 William Pollitzer Essay Award, American Association of Physical Anthropologists (\$500 awarded to Beth K. Scaffidi)

INTERNAL GRANTS AND SCHOLARSHIPS

- 2019-2020 Arizona State University Center for Bioarchaeological Research Pilot Grant proposal entitled *Post-Wari Residential Mobility at Quillcapampa in the Sigwas Valley, Peru* (\$4,930 awarded to Beth K. Scaffidi, Justin Jennings, and Kelly Knudson)
- 2016-2017 Vanderbilt Anthropology Department Supplemental Research Award proposal entitled *The Wari Empire (600 – 1000 AD) and Structural Violence in Southern Peru: a Bioarchaeological Perspective* (\$1,500 awarded to Beth K. Scaffidi)
- 2014-2015 Vanderbilt Graduate School Dissertation Enhancement Award proposal entitled

- Radiocarbon Dates from Recent Excavations of the Wari-era Cemetery of Uraca in Arequipa, Peru* (\$2,000 awarded to Beth K. Scaffidi)
- 2014-2015 Curb Center Public Scholarship Award proposal entitled *Documenting and Preventing Archaeological Looting in Arequipa, Peru* (\$2,000 awarded to Beth K. Scaffidi)
- 2012-2013 Vanderbilt College of Arts and Science Summer Research Award proposal entitled *Mummies of Zarzal: Social Conflict and Status-Based Differences Prior to the Wari Empire, Sigwas Valley, Peru* (\$1,700 awarded to Beth K. Scaffidi)
- 2008-2017 Vanderbilt Department of Anthropology Graduate Student TA/RA Support (\$24,000/year Awarded to Beth K. Scaffidi)
- 2001-2002 Frances L. Phillips Scholarship (UNC-Chapel Hill) proposal entitled *Understanding Archaeological Heritage Management in Egypt* (\$3,000 awarded to Beth K. Scaffidi)
- 1998-2002 Pegg Scholarship, UNC-Chapel Hill (full tuition awarded to Beth K. Scaffidi)

CONFERENCES AND CONFERENCE SYMPOSIA ORGANIZED

- 2020 “Isoscapes, Isotopic Provenience, and Baseline Studies in Human and Primate Ecologies: Methodological and Interpretive Challenges,” co-organized by **Beth K. Scaffidi** and Andrew Zipkin at the 89th Annual Meeting of the American Association of Physical Anthropologists, Los Angeles, California, April 15-18.
- 2018 “Regional Interaction During the Andean Middle Horizon: Ongoing Research in the Peruvian South Coast and Yungas,” organized by **Beth K. Scaffidi** and Stefanie Bautista at the 83rd Annual Meeting of the Society of American Archaeology in Washington, D.C., April 11-15.
- 2016 “Excavations at Uraca, a Middle Horizon (600 – 1000 AD) Cemetery in the Middle Majes Valley, Arequipa, Peru,” organized by **Beth K. Scaffidi** at the 80th Annual Meeting of the Society for American Archaeology, San Francisco, California, April 15-19.
- 2014-2015 “Geographic Imaginations & Spatial Humanities,” co-organized by **Beth K. Scaffidi** and Scotti Norman for the Robert Penn Warren Center for Humanities at Vanderbilt University, Nashville, Tennessee, academic year 2014-2015.
- 2014 “Archaeological Sciences of the Americas Symposium,” co-organized by **Beth K. Scaffidi** and Matthew Velasco, Vanderbilt University, Nashville, Tennessee, October 5-6.
- 2013 “Peru v. Yale: Legal Issues and Archaeological Ethics,” organized by **Beth K. Scaffidi** and funded by the Department of Anthropology, Center for Latin American Studies, the Curb Center, College of Arts and Sciences, and Law School of Vanderbilt University, Nashville, Tennessee.

INVITED CONFERENCE PAPERS AND POSTERS PRESENTED (18)

(student collaborators italicized)

- 2020 “Early Childhood Diet and Social Mobility: Stable Isotope Analysis of Sequentially-Forming Human Tissues at the Cemetery of Uraca, Lower Majes Valley, Peru (ca. 200 – 750 CE)” by **Beth K. Scaffidi**, Natasha Vang, and Tiffany Tung. Invited paper presented in the symposium “Food, Diet, and Cuisine in the Ancient Andes” organized by Deborah Blom and Marta Alfonso-Durutty at the 85th Annual Society for American Archaeology Meeting, Austin, Texas, April 22-26.
- 2020 “Single and Dual Isoscape Models for Assigning Geographic Provenience in the Andes” by **Beth K. Scaffidi**, Kelly Knudson, and Tiffany Tung. Invited poster presented in the symposium “Isoscapes, Isotopic Provenience, and Baseline Studies in Human and Primate Ecologies: Methodological and Interpretive Challenges” organized by **Beth K. Scaffidi** and Andrew Zipkin at the 89th Annual Meeting of the American Association of Physical Anthropologists, Los Angeles, California, April 15-18.
- 2020 “Using Environmental and Archaeological Samples to Build a Forensic Isoscape of the Peruvian Andes: Paths Forward for Identifying Victims from the Time of Violence in Peru

- (1980-1990s)” by **Beth K. Scaffidi**, Roberto Parra, Kelly Knudson, Martha Palma, and Tiffany Tung. Invited poster presented in the symposium “Isotopic Analysis in Forensic Anthropology” organized by Douglas Ubelaker at the 72nd Annual Meeting of the American Academy of Forensic Sciences, Anaheim, California, February 17-20.
- 2019 “Trace Element Analysis of Archaeological Human Enamel and Bone Apatite: Implications for Documenting Biological Sex and Health Status” by **Beth K. Scaffidi**, Gwyneth Gordon, and Kelly Knudson. Invited paper presented in the symposium “Analytical Chemistry in Art and Anthropology” organized by Mary Kate Donais and Andrew Zipkin at the SciX Analytical Chemistry Meetings, Palm Springs, California, October 13-18.
- 2018 “Water as a Baseline for Bioavailable Strontium: Preliminary Findings of the Andean Paleomobility Unification (APU) Project” by **Beth K. Scaffidi**, Gwyneth Gordon, Tiffany Tung, and Kelly Knudson. Invited paper presented in the symposium “Isotopic Studies in Archaeology” organized by Andrew Somerville and Violeta Killian Galvan at the XV Congress of the Latin American Association of Biological Anthropology, Mayaguez, Puerto Rico, November 1-4.
- 2018 “Violent ritual and inter-regional interaction during the Early Intermediate Period and Early Middle Horizon in the Majes Valley, Arequipa, Peru” by **Beth K. Scaffidi**. Invited paper presented in the symposium “Regional Interaction During the Andean Middle Horizon: Ongoing Research in the Peruvian South Coast and Yungas” organized by **Beth K. Scaffidi** and Stefanie Bautista at the 83rd Annual Meeting of the Society of American Archaeology in Washington, D.C., April 11-15.
- 2017 “Finding Family, Finding Home: Using Stable Oxygen Isotope Analyses and Isoscapes in Peru To Aid in the Identification of Missing Persons” by *James Zimmer-Dauphine*, **Beth K. Scaffidi**, Martha Palma, Roberto Parra, and Tiffany Tung. Invited paper presented in the XIII Congress of the Latin-American Association of Forensic Anthropology-ALAF, São Paul, Brazil.
- 2017 “Defining Spatial Paleopathology: Geographic Risk for Cranial Hyperostoses in the Andes” by **Beth K. Scaffidi**. Invited poster presented in the symposium “The Paleopathology of Andean South America: 20 Years of Advances and Future Prospects” organized by Marla Toyne, Haagen Klaus, and Melissa Murphy at the 44th Annual Meeting of the Paleopathology Association, New Orleans, Louisiana, April 18-19.
- 2016 “Making Enemies, Making Places: Geographic Origins of Mummified Trophy Heads from Uraca, Arequipa, Peru” by **Beth K. Scaffidi**, George Kamenov, Mirza del Castillo, and John Krigbaum. Invited paper presented in the symposium “Application of Biochemical Methods to Mummy Studies” organized by Corina Kellner and Martha Palma at the 9th World Congress on Mummy Studies, Lima, Peru, August 10-13.
- 2016 “Warfare and Foodways: Violence, Dismemberment, and Diet at Wari-era Uraca (600 – 1000 AD) in the Lower Majes Valley, Arequipa, Peru” by **Beth K. Scaffidi** and Tiffany Tung. Invited paper presented in the symposium “Bioarchaeology of War” organized by Tiffany Tung and Patricia Maita at the 9th World Congress on Mummy Studies, Lima, Peru, August 10-13.
- 2016 “Wandering Huacas: Petroglyphs, *Placas Pintadas*, and the Ancestral Landscape of Toro Muerto, Arequipa, Peru” by **Beth K Scaffidi**. Invited paper presented in the symposium “Stony Signs and Semiotic Topologies of Tenacity” organized by Stephen Berquist at the 9th North American Meeting of the Theoretical Archaeology Group, Boulder, Colorado, April 22-24.
- 2016 “Narration, Mediation, and Transformation: Dismembered Heads from Middle Horizon Uraca (Majes Valley, Arequipa, Peru) and the Andean Feline-Hunter Mythology” by **Beth K. Scaffidi**. Invited paper in the symposium “The Poetics of Processing: Memory Formation, Cosmology, and the Handling of the Dead” by Anna Osterholtz and Debra Martin at the 81st Annual Meeting of the Society for American Archaeology, Orlando,

- Florida, April 6-10.
- 2016 “A Technical Attribute Analysis of Textile Band Production at Uraca, Peru” by *Samantha Seyler* and **BK Scaffidi**. Poster presented in the session “Textile Technologies of Prehispanic Mesoamerica and the Andes” organized by Samantha Seyler and Holly Neville at the 81st Annual Meeting of the Society for American Archaeology, Orlando, Florida, April 6-10.
- 2015 “Manufacturing Trophy Heads in the Middle Majes Valley” by *Adam Birge* and **Beth K. Scaffidi**. Invited poster in the symposium “Excavations at Uraca, a Middle Horizon (600 – 1000 AD) Cemetery in the Middle Majes Valley, Arequipa, Peru” organized by **Beth K. Scaffidi** at the 80th Annual Meeting of the Society for American Archaeology, San Francisco, California, April 15-19.
- 2015 “Variations in Cranial Vault Modification at Uraca, Majes Valley, Peru” by *Aric Archebelle-Smith, Manuel Mamani, Lisseth Rojas Pelayo,* and **Beth K Scaffidi**. Invited poster in the symposium “Excavations at Uraca, a Middle Horizon (600 – 1000 AD) Cemetery in the Middle Majes Valley, Arequipa, Peru” organized by **Beth K. Scaffidi** at the 80th Annual Meeting of the Society for American Archaeology, San Francisco, California, April 15-19.
- 2015 “Landscapes of Violence: Trophy Head Production and Interpersonal Violence during the Wari era in the Middle Majes Valley, Arequipa, Peru” by **Beth K Scaffidi**. Invited poster in the symposium “Excavations at Uraca, a Middle Horizon (600 – 1000 AD) Cemetery in the Middle Majes Valley, Arequipa, Peru” organized by **Beth K. Scaffidi** at the 80th Annual Meeting of the Society for American Archaeology, San Francisco, California, April 15-19.
- 2015 “Proyecto Arqueológico Uraca: Investigación Arqueológica de Las Prácticas Mortuorias, Dieta, Salud, y Violencia Entre los Majeños Antiguos, Temporada 2014” by **Beth K. Scaffidi** and Manuel Garcia Márquez. Invited paper presented at the II Congreso Nacional de Arqueología, Lima, Peru, August 4-7.
- 2013 “Helminths and Hyperostoses: Spatial Epidemiological Models of Climatological Risk Factors and Adaptation tor Terrestrial Parasitic Infection in the Prehistoric Peruvian Andes” by **Beth K. Scaffidi**. Invited paper in the symposium “Geoarchaeological Approaches in Archaeology” organized by Michele Koons at the 125th Annual Meeting of the Geological Society of America, Denver, Colorado, October 27-November 1.

CONTRIBUTED CONFERENCE PAPERS AND POSTERS (13)

(student collaborators italicized)

- 2020 “Water Scarcity and Wari Imperial Expansion: Using Remotely Sensed (Planet) Data to Examine the Impact of Freshwater Availability on Imperial Settlement Strategies” by *Jake Dean* and **Beth K. Scaffidi**. Poster presented at the 85th Annual Meeting of the Society for American Archaeology, Austin, Texas, April 22-26.
- 2019 “Crowd-sourcing Isoscapes in (Bio)archaeology: The Andean Paleomobility Unification (APU) Project and Geolocation of Skeletons and Artifacts” by **Beth K. Scaffidi** and Kelly Knudson. Poster presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico, April 10-14.
- 2019 “Parental Investment in a High-stress Environment: Weaning Age and Early Childhood Diet in the Majes Valley, Arequipa, Peru” by Alexandra Greenwald, **Beth K. Scaffidi**, and Kelly Knudson. Paper presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico, April 10-14.
- 2019 “Violence and Geographic Fluidity: Using Strontium Isotopes from Bone and Enamel to Track Geographic Residence Throughout the Life Course in Prehistoric Arequipa, Peru” by **Beth K. Scaffidi**, George Kamenov, Gwyneth Gordon, *Christina Tica, Rebecca Ulloa,* Kelly Knudson, and John Krigbaum. Poster presented at the 88th Annual Meeting of the American Association of Physical Anthropologists, Cleveland, Ohio, March 27-30.
- 2019 “The Andean Paleomobility Unification (APU) Project: Strontium and Oxygen Isoscapes

- from Skeletal Data and Field Data Collection Strategies” by **Beth K. Scaffidi** and Kelly Knudson. Poster presented at the 59th Annual Meeting of the Institute of Andean Studies, Berkeley, California, January 4-5.
- 2017 “Diet in Coastal Arequipa, Peru at the Dawn of the Wari Empire” by **Beth K. Scaffidi**, Natasha Vang, and Tiffany Tung. Paper presented at the 82nd Annual Meeting of the Society for American Archaeology, Vancouver, British Columbia, Canada, March 29-April 2.
- 2016 “Environmental Crisis or the Onset of Empire: Intercommunity Violence at the Dawn of the Wari Empire in Coastal Arequipa, Peru” by **Beth K. Scaffidi**. Paper presented at the 2nd Annual Meeting of the Rocky Mountains Pre-Columbian Association, Denver, Colorado, September 24.
- 2016 “Using a Suitability Score Model to Map *Histoplasmosis capsulatum* Infection” by Amelia Maiga, **Beth K. Scaffidi**, Melinda Aldrich, John Baddley, Eric Grogan, and Stephen Deppen. Paper presented at the Epidemiology Congress of the Americas, Miami, Florida, June 21-24.
- 2015 “Anisotropy and the Apus: Exploring Inter-Regional Travel in Southern Peru during the Andean Middle Horizon (600 – 1000 AD)” by **Beth K. Scaffidi**. Poster presented at the 28th Annual Meeting of GIS in the Rockies, Denver, Colorado, September 23-24.
- 2013 “Ritual and Routine: Mapping Molle, Maize, and the Carbon Isoscape in Wari-era Arequipa, Peru” by **Beth K. Scaffidi**. Paper presented at the 79th Annual Meeting of the Society for American Archaeology. Honolulu, Hawaii, April 3-7.
- 2012 “Mountains and Molle: Least Cost and Cost Catchment Models for Wari Interaction in Coastal Arequipa, Peru, AD 600-1000” by **Beth K. Scaffidi**. Paper presented at the 4th Archaeological Sciences of the Americas Symposium, Nashville, Tennessee, October 5-6.
- 2011 “Unceremonious Endings: Burial Treatment, Trauma, and Paleopathology of a Historic Population from Chavín de Huántar, Peru” by **Beth K. Scaffidi** and John Rick. Poster presented at the 76th Annual Meeting of the Society for American Archaeology, Sacramento, California, March 31-April 4.
- 2010 “Traumatic Injury and Physical Activity: Correlations Between Robust Musculoskeletal Markers and Fractures on the Clavicle” by **Beth K. Scaffidi** and Tiffany Tung. Poster presented at the 78th Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, New Mexico, April 14-17.

INVITED WORKSHOPS ATTENDED

- 2019 “Synthetic Study of Human Migration as Understood from a Long-Term Perspective” by Center for Archaeological Synthesis, Tucson, Arizona, September 27-October 1.
- 2015 “Incorporating GIS Into the Atmospheric Science Curriculum,” National Center for Atmosphere Research, Boulder, Colorado, June 24-26.

INVITED EXTERNAL PRESENTATIONS

- 2019 “Cranial Trauma and Isotopic Life Histories: Understanding the Impact of Violent Conflict on Social and Geographic Mobility,” Pennsylvania State University Department of Anthropology Early Career Fellows Program, February 4-5.
- 2019 “Isotopic Life Histories and Isotopic Landscapes: Understanding Intra-lifetime Movement of Burials from the Prehistoric Majes Valley, Arequipa, Peru,” Mesa Community College, February 27.

INVITED INTERNAL PRESENTATIONS

- 2020 “Isotopic Osteobiographies: Childhood and Adult Diets and the Emergence of the Wari Empire in the Arequipa *Yungas*, Peru” Osher Institute for Lifelong Learning, Arizona State University, March 10.
- 2019 “The Influence of Childhood Diet and Mobility on Adult Health and Social Status

- Outcomes: Examples from Prehistoric Arequipa, Peru,” ASB 591: Biogeochemistry and Anthropology Seminar, November 4.
- 2019 “Biogeochemical and Big-Data Approaches in Bioarchaeology: Understanding Diet and Residential Mobility at Local and Regional Scales,” ASM 300: Anthropological Sciences Seminar, Arizona State University, September 17.
- 2019 “Isotopic Approaches to Trade and Migration in the Prehistoric Andes: Placing Artifacts and Skeletons on Isotopic Landscapes,” Osher Institute for Lifelong Learning, Arizona State University, March 6.
- 2018 “The Andean Paleomobility Unification (APU) Project: Participatory Field Data Collection and Predictive Isoscape Modeling for Geolocation,” Spatial Analysis Research Center, Arizona State University, October 17.
- 2015 “Field Data Collection with ArcGIS Online, Field Studies Symposium,” Colorado College, July 9-11.
- 2014 “Spatial Dimensions of Teaching,” GradSTEP Teaching Conference, Vanderbilt University Center for Teaching, January 25.
- 2013 “Challenges and Opportunities of Teaching for the Field,” GradSTEP Teaching Conference, Vanderbilt University Center for Teaching, January 26.
- 2009 “Crime and Punishment in US Courts,” Department of Sociology, Vanderbilt University, January 28.

ARCHAEOLOGICAL RESEARCH

- 2015-2018 Bioarchaeologist, Quillcapampa Archaeological Project (PI’s: Justin Jennings, Willy Yépez Álvarez, and Stefanie Bautista)
- 2013-2015 Assistant, Bioarchaeological Stable Isotope Research Lab, Vanderbilt University (PI: Tiffany Tung)
- 2010 Assistant Bioarchaeologist, Cocahuischo, Nasca, Peru (PI’s: Kevin Vaughn and Verity Whalen)
- 2010 Bioarchaeologist, Chavín de Huantar, Peru (PI: John Rick)
- 2011-2013 Laboratory Assistant, Vanderbilt University Osteology Lab (PI: Tiffany Tung)
- 2009 Laboratory Assistant, Wari Bioarchaeological Project, Ayacucho, Peru, (PI: Tiffany Tung)
- 2009 Laboratory Assistant, Tuti Antiguo Archaeological Project (PI: Steve Wernke)
- 2009 Assistant Crew Chief, Moche Origins Project (PI: Brian Billman)
- 1999 Florida State University Field School, Cetamura, Italy (PI: Nancy DeGrummond)

COURSES TAUGHT

Mesa Community College

- 2019 Bones, Stones, and Human Evolution (ASM 104)

Vanderbilt University

- 2017 Introduction to Geographic Information Systems and Remote Sensing (ANTH 3261)
- 2016 Human Osteology (ANTH 3372)
- 2013-2014 Graduate Practicum in College Teaching, Vanderbilt University Center for Teaching
- 2012 Graduate Seminar in College Teaching, Vanderbilt University Center for Teaching

Colorado College

- 2016 Introduction to Geographic Information Systems and Remote Sensing (EV260/GY250)

Trevecca Nazarene University

- 2014 Forensic Anthropology, Genocide, and Human Rights in US and International Courts (SOC 4300)
- 2013 Introduction to Four-field Anthropology (Online) (ATH 3010)
- 2011-2012 Introduction to Four-field Anthropology (ATH 3010)

Vanderbilt University Programs for Talented Youth

2014	Spatial Epidemiology and Geomedicine
2013	Bioarchaeology
2012	Forensic Anthropology
2011	Human Evolution and Adaptation
2010	Criminal Law from Crime Scene to Trial

PUBLIC OUTREACH

2018	Open Door Bioarchaeology Booth, Center for Bioarchaeological Research, Arizona State University, February 23.
2016	“Pathways to Preservation, Defining and Documenting Archaeological Looting in Southern Peru,” Film distributed to Arequipa stakeholder communities, draft available: https://www.youtube.com/watch?v=WoA4-fNsYU4 .
2015	“Resultados Preliminares del Proyecto Arqueológico Uraca, del Valle de Majes, Arequipa,” Instituto de Investigaciones Ciencias Sociales, Universidad de San Agustín, Arequipa Peru, May 15.
2015	“That Belongs in a Museum: Cultural Heritage in the Days of Indiana Jones and Now,” Belcourt Theatre Science on Screen, Nashville, Tennessee, August 15.
2014	“Mapping Health Phenomena with ArcMap,” Center for Science Outreach, Vanderbilt University, June 24.
2013	“Forensic Anthropology: Evidence, Excavation, and Analysis in the Field,” Vanderbilt Girls and Science Camp, June 28.
2012	“Forensic Archaeology and Anthropology for High School Teachers,” Vanderbilt Girls and Science Camp, July 8.
2011	“Discovery and Recovery, a Unique Death Investigation Workshop,” NC Program for Forensic Sciences, NC State University, August 12-14.

MUSEUM RESEARCH

2013-2015	Affiliated Researcher, Museo de Antropología, Universidad de San Agustín, Arequipa Peru
2002-2003	Intern, University of Pennsylvania Museum of Anthropology and Archaeology, Mediterranean Section

ETHNOGRAPIC EXPERIENCE

2015	Bilingual Data Collector, Battelle Memorial Institute
2003	Research Assistant, University of Pennsylvania Museum of Anthropology and Archaeology (PI: Paula Sabloff)
2001	Ethnography Intern, Pocosin Arts, Columbia, NC

LEGAL EXPERIENCE (SELECTED)

2006-2008	Assistant District Attorney, 16 th Prosecutorial District, Durham County, North Carolina
2005-2006	Student Attorney, 3 rd Year Practice, University of New Hampshire School of Law Criminal Defense Clinic
2005-2006	Student Attorney, New England Innocence Project, University of New Hampshire School of Law
2004-2005	Law Clerk, State Solicitor’s Office, Charleston, South Carolina
2004-2005	Intern, District Attorney’s Office, 33 rd Prosecutorial District, Davidson County, North Carolina
2004-2005	Student Researcher, University of San Diego Institute of Comparative Law in Antiquities Law

SKILLS AND TRAINING

Bioarchaeological Isotope Analysis

- 2014-present Strontium and lead isotope analysis: Mechanical and chemical cleaning, ion chromatography, and IC-P-MS (carbonates, plants, and water)
2013-present Stable isotope analysis: Preparation (bone/ dental apatite, bone/ dentinal collagen), IRMS analysis, data reduction

Spatial Analysis

- 2011-present ESRI: Arc Info/ Advanced through 10.6 and all extensions, ArcGIS Online, ArcGIS Pro, ArcGlobe, Arc Collector
2013-present Open source GIS: QGIS, Grass, GeoDa
2013-present Data Collection: Trimble/ GPS Pathfinder Office, Collector for ArcGIS Online, ArcPad, QField, Pix4D
2013-present Remote sensing: ENVI (Certificate, Exploring ENVI Class), ERDAS, Fiji ImageJ, Photoscan

Data Analysis and Computer Laboratory Management

- 2015-present Laboratory Management: Clonezilla, Filezilla FTP/Server, Word Press, dot CMS
2014-present Databases: Filemaker Pro, Microsoft Access, SQL (beginner)
2012-present Statistics: Stata, Minitab, SPSS, R (intermediate), Matlab (beginner), Graph Pad, Tableau, Python (beginner)
2011-present Adobe: Photoshop, Illustrator, Captivate

Languages

- 2003-present Spanish (advanced written and spoken)
1998-2002 Italian (beginner written and spoken)
2002-2003 Latin (reading knowledge)

PROFESSIONAL ACTIVITIES

Professional Service

- 2018-2019 Ethics Subcommittee, Bioarchaeology Interest Group, Society for American Archaeology
2018-present Reviewer, American Anthropologist (2)
2016-2018 Guest Judge, US Army E-Cyber Mission Competition for High School STEM Students

Vanderbilt University Service and Activities

- 2012-2014 Vanderbilt Partnership for Science in the Classroom/Center for Science Outreach
2013-2014 Digital Humanities Group, Robert Penn Warren Center for the Humanities
2013-2014 Center for Teaching Representative to the Graduate Student Council
2011-2012 Historical Memory Working Group, Robert Penn Warren Center for the Humanities
2008-2017 Bioarchaeological Discussion Group
2008-2017 Latin American Archaeology Discussion Group
2009-2016 VanChiVard: Vanderbilt, Harvard, and University of Chicago Working Group on Andean Archaeology
2010-2011 Liaison to the Speakers Committee, Vanderbilt Anthropology Graduate Student Association
2009-2010 Graduate Student Council Representative, Vanderbilt Anthropology Graduate Student Association
2008-2011 Vanderbilt Art and Cultural Property Law Association
2008-2009 Pro Bono Volunteer, The List Project to Resettle Iraqi Allies, Vanderbilt University Law School
2008-2009 Treasurer, Vanderbilt Anthropology Graduate Student Association

Professional Associations

- 2019-present Institute of Andean Studies
2019-present Register of Professional Archaeologists

2008-present Society for American Archaeology: Bioarchaeology Interest Group, Heritage Values Group,
Open Data Interest Group
2008-present American Association of Physical Anthropologists
2018-present Women in GIS
2017-2018 Paleopathology Association
2016-2019 Graduate Women in Science
2015-2016 Conference of Latin American Geographers
2008-2017 Lawyers' Committee for Cultural Heritage
2013-2014 Sigma Xi, The Scientific Research Society
2011-2012 The Explorer's Club
2006-present NC State Bar (State Bar # 35385)

Other Volunteer Service

2011-2013 Coach, Girls on the Run of Nashville, TN
2010-2011 Volunteer, Conversemos Language Exchange Program, Conexión Nashville