

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 (Formerly Franklin Pierce Law Center)
- 2002 BA, University of North Carolina, Chapel Hill, Anthropology; Dramatic Art

PEER-REVIEWED JOURNAL ARTICLES (8)

8. 2020 **Beth K. Scaffidi**, “A Bioarchaeological Approach to Understanding Conflict and Collaboration: The Circulation of Violence as a Heterarchical Structure.” In *Cooperative Bodies: Bioarchaeology and Non-Ranked Societies*, co-edited by Sara Becker and Sara Juengst, *American Anthropologist Vital Topics Forum* 122:4 924-929.
7. 2020 **Beth K. Scaffidi**, Tiffany Tung, Gwyneth Gordon, Aleksa Alaica, Luis Manuel González La Rosa, Sara Marsteller, Allisen Dahlstedt, Emily Schach, and Kelly Knudson, “Drinking locally: A Water ⁸⁷Sr/⁸⁶Sr Isoscape for Geolocation of Archaeological Samples in the Peruvian Andes.” In *A Golden Age for Strontium Isotope Research? Current Advances in Paleoecological and Archaeological Research*, co-edited by Brooke Crowley, Clement Bataille, Kate Britton, Joshua Miller, and Matthew Wooller, *Frontiers in Ecology and Evolution*.
6. 2020 Jeffrey H. Altschul, Keith W. Kintigh, Mark Aldenderfer, Elise Alonzi, Ian Armit, Juan Antonio Barcelo, Christopher S. Beekman, Penny F. Bickle, Douglas W. Bird, Scott E. Ingram, Elena Isayev, Andrew W. Kandel, Rachael Kiddey, H el ene Timpoko Kienon-Kabor e, Franco Niccolucci, Corey S. Ragsdale, **Beth K. Scaffidi**, Scott G. Ortman, Christine R. Szuter, Felipe Criado-Boado, Joe E. Watkins, “Opinion: To Understand How Migrations Affect Human Securities Look to the Past.” *PNAS* 17 (34) 20342-20345.
5. 2020 **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.” *Journal of Archaeological Science* 117: 105-121.
4. 2020 **Beth K. Scaffidi** and Tiffany Tung, “Endemic violence in a Pre-Hispanic Community: A Bioarchaeological Study of Cranial Trauma from the Majes Valley, Peru.” *American Journal of Physical Anthropology* 172(2): 246-269.
3. 2020 **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* 29: 102-116.
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.

PEER-REVIEWED BOOK CHAPTERS (2)

2. 2020 **Beth K. Scaffidi**, “Power, Mediation, and Transformation: Dismembered Heads from Uraca (Majes Valley, Peru) and the Andean Feline-hunter Myth.” In: *The Poetics of Processing: Memory Formation, Cosmology and the Handling of the Dead*, edited by Anna Osterholz. University Press of Colorado: Boulder, Colorado, pg. 15-40.
1. 2020 James Zimmer-Dauphinee, **Beth K. Scaffidi**, and Tiffany Tung, “Andean Isoscapes: Creating and Testing Oxygen Isoscape Models to Aid in the Identification of Missing Persons in Peru.” In *Forensic Science and Humanitarian Action: Interacting with the Dead and the Living*, co-edited by Roberto C. Parra, Sara C. Zapico, and Douglas H. Ubelaker. John Wiley & Sons: New York, pg. 311-384.

MANUSCRIPTS IN PRESS, REVIEW, OR PREPARATION (9)

- In press Justin Jennings, Willy Yépez Álvarez, Stefanie Bautista, **Beth K. Scaffidi**, Tiffany A. Tung, Stephen Berquist, Luis Manuel González La Rosa, Aleksa Alaica, “Funerary Traditions, Population Aggregation, and the *Ayllu* in Late Intermediate Period Sihuas Valley, Peru.” Accepted for publication in *Latin American Antiquity*.
- In revision **Beth K. Scaffidi**, George Kamenov, Ashley Sharpe, and John Krigbaum, “Non-local enemies or local subjects of violence?: Using Strontium ($^{87}\text{Sr}/^{86}\text{Sr}$) and Lead ($^{206}\text{Pb}/^{204}\text{Pb}$, $^{207}\text{Pb}/^{204}\text{Pb}$, $^{208}\text{Pb}/^{204}\text{Pb}$) Isobiographies to Reconstruct Geographic Origins and Early Childhood Mobility of Trophy Heads from the Lower Majes Valley, Peru.” Manuscript accepted pending major revisions to the *Journal of Archaeological Method and Theory*.
- In review **Beth K. Scaffidi**, Tiffany Tung, and Kelly Knudson, “Seasonality or Short-term Mobility Among Trophy head Victims and Villagers: Understanding Late-life Dietary Change in the Pre-Hispanic Andes Through Stable Isotope Analysis ($\delta^{13}\text{C}/\delta^{15}\text{N}$) in Archaeological Hair Keratin and Bone Collagen,” Manuscript submitted to *Journal of Archaeological Science*.
- In review **Beth K. Scaffidi**, Natasha Vang, and Tiffany Tung, “Becoming Combatants: Understanding the Constitutive Power of Maize Through Early-life Isobiographies in the Lower Majes Valley, Peru (ca. 200 – 750 CE).” Manuscript in review for publication in *Food, Diet and Cuisine in the Ancient Andes*, co-edited by Deborah Blom and Marta Alfonso-Durutti. University of Arizona Press: Tucson, AZ (2020 Amerind Seminar Award, Society for American Archaeology).
- In preparation **Beth K. Scaffidi**, Justin Jennings, Christine Giuntini, Gwyneth Gordon, and Kelly Knudson, “Collecting Feathers from Afar: Radiogenic Isotope Analysis of Archaeological Feathers from the Corral Redondo Panels (Arequipa, Peru) Demonstrates Trade Across the Andes in the Andean Middle Horizon (ca. 600 – 1000 CE),” Manuscript to be submitted to *PNAS*.
- In preparation **Beth K. Scaffidi** and Tiffany Tung, “The Emergence and Maintenance of Dietary Differentiation: Understanding Structural Violence in the pre-Hispanic Peruvian Andes Through Stable Isotope Analysis of Sequentially-forming Tissues Throughout the Life Course.” Manuscript to be submitted to *Current Anthropology*.
- In preparation Aleksa Alaica, **Beth K. Scaffidi**, Kelly Knudson, Justin Jennings, Luis Manuel González La Rosa, and Tiffany Tung, “Camelid Foddering Strategies During the Middle Horizon (600 – 1000 CE): Insights from Stable Isotope Analyses in the Majes and Sihuas Valleys, Arequipa, Peru.” Manuscript to be submitted to *Quaternary International*.
- In preparation Andrew Zipkin, **Beth K. Scaffidi**, Stanley Ambrose, Craig Lundstrom, Gideon Bartov, Elizabeth Gomani-Chindebvu, 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*.

ACTIVE RESEARCH PROJECTS

- 2020-present **Co-director** (with Patricia Quiñonez Cuzcano, Stephen Berquist, and Matthew Biber): Caravelí Archaeological Project. In development and funding stages of four-year archaeological project investigating a walled settlement to understand how the wane of Wari influence and the subsequent period of climatic instability impacted ritual, domestic practices, mobility, trade, health, and nutrition.
- 2019-present **Co-PI** (with Elise Alonzi, Ian Armit, Penny Bickle, Elena Isayev, Franco Niccolucci, and Scott Ortman): LAMP: Leveraging Archaeology for Contextualizing Mobility in the Present (submitted to NSF-AHRC). Project of the Center for Archaeological Synthesis Working Group on Migration contextualizing present mobility through a deep-time synthesis of community composition mined from published strontium isotope and bioarchaeological data.
- 2018-present **PI**: The Andean Paleomobility Unification (APU) Project. Developed collaborative, mobile GIS-based field database to collect and analyze bioavailable strontium and oxygen in plant, faunal, and water samples. Developing geostatistical isoscape models for oxygen and strontium isotope systems in the Andes to enable probabilistic geolocation of human remains and artifacts.
- 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, isotopes, and skeletal health as proxies (Resoluciones Directorales: #082-2014 (Excavation), #067-2015-VMPCIC-MC (Export), #212-2018-VMPCIC-MC(Export)).

ACADEMIC POSITIONS HELD

University of California Merced

2020- Assistant Professor, Department of Anthropology and Heritage Studies

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

TECHNICAL REPORTS (2)

2018 **Beth K. Scaffidi** and Manuel García Márquez, “Informe Final Sobre El Proyecto de Toma de Muestras de Uraca (Proyecto Arqueológico Uraca).” Lima, Perú.

2015 **Beth K. Scaffidi** and Manuel García Márquez, “Informe Final Para el Ministerio de Cultura: Proyecto Arqueológico Uraca, Valle de Majes, Temporada 2014.” Lima, Perú.

EXTERNAL GRANTS AND FELLOWSHIPS (11)

- 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 Sihuas 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 (10)

- 2021 University of California, Merced Faculty Success Initiative-Extramural Funding Fellowship
- 2020-2021 University of California, Merced Center for the Humanities Individual Research Grant entitled *Caravelí Valley Archaeological Survey* (\$2,000 awarded to Beth K. Scaffidi)
- 2019-2020 Arizona State University Center for Bioarchaeological Research Pilot Grant proposal entitled *Post-Wari Residential Mobility at Quilcapampa in the Sihuas 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 (6)

- 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 (23)

(student collaborators italicized)

- 2021 “Isotopic Insights into Coastal-Highland Interactions in the Wari Hinterland, Arequipa, Peru (CE600-1000): Considering Camelid Pastoralism along the Andean Vertical Archipelago and the Chala-Yungas-Quechua Ecozone,” by *Aleksa K. Alaica*, **Beth K. Scaffidi**, Justin Jennings, Luis Manuel González La Rosa, Kelly J. Knudson and Tiffany A. Tung. Invited paper in the symposium, “Agropastoral practices in the Andean Macro-region: Assessing its Heterogeneity Through Recent Methodological Advances and Interpretive Frames” by Celeste Samec and Veronica Zuccarelli at the 57th International Congress of Americanists, Foz do Iguaçu, Brazil, July 19-23.
- 2021 “Local People Circulating Non-local Things: Rethinking Inter-regional Mobility in the Arequipa *Yunga* in the Circum-Wari Era,” by **Beth K. Scaffidi**, Justin Jennings, Christine Giuntini, Tiffany A. Tung, *Aleksa K. Alaica*, Luis Manuel González La Rosa and Kelly J. Knudson. Invited paper in the symposium, “A New Horizon: Reassessing the Middle Horizon (600-1000 A.D.) and Rethinking the Andean State” by Stephen Berquist at the 86th

- Annual Society for American Archaeology Meeting, San Francisco, CA, April 14-18.
- 2020 “Leveraging Archaeology for Understanding Migrations of the Present” by Elise Alonzi, Ian Armit, Penny Bickle, Elena Isayev, Franco Niccolucci, Scott Ortman, and **Beth Scaffidi**. Invited paper presented in the symposium, “Collaborative Synthesis: The EAA-SAA Human Migration Projects” organized by Jeff Altschul, Julian Richards, and Keith Kitingh at the 26th European Archaeological Association Virtual Annual Meeting, August 24-30.
- 2020 “Climate Migrants of the Past, Present, and Future” by Mark Aldenderfer, Douglas Bird, Kristina Douglass, Nicolas Gauthier, Scott Ingram, and **Beth Scaffidi**.” Invited paper presented in the symposium, “Collaborative Synthesis: The EAA-SAA Human Migration Projects” organized by Jeff Altschul, Julian Richards, and Keith Kitingh at the 26th European Archaeological Association Virtual Annual Meeting, August 24-30.
- 2020 “Tradiciones Funerarias, Concentración de la Población, y el Ayllu durante el Período Intermedio Tardío en el Valle de Sigüas, Perú” by Justin Jennings, Willy Yépez Álvarez, Stefanie Bautista, **Beth K. Scaffidi**, Tiffany A. Tung, Stephen Berquist, Luis Manuel González La Rosa, Aleksa Alaica. Invited paper presented in the II Congreso Internacional de Arqueología del Centro Sur Andino, Virtual, August 28, 2020.
- 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-Durutti at the 85th Annual Society for American Archaeology Meeting, Austin, Texas, April 22-26. Received the Amerind Foundation Seminar Program Award.
- 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 Osterholz 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 **Beth K. 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 (14)

(student collaborators italicized)

- 2021 “Insularity and Constricted Inter-regional Mobility in the Late Intermediate Period (*ca.* 1100 - 1450 CE) Siguas Valley of Peru,” by **Beth K. Scaffidi**, Justin Jennings, Corina Kellner, Tiffany Tung, and Kelly Knudson. Poster presented at the 90th Annual Meeting of the American Association of Physical Anthropologists, Baltimore, Maryland, April 7-10.
- 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 (cancelled due to COVID-19).
- 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 AND PROGRAMS

- 2020-2021 “Mellon Pathways to a Diverse Faculty Year Long Program” at the University of California, Merced, AY 2020-2021.
- 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 “Non-local enemies or local victims of violence?: Using strontium and lead isotopes to determine geographic origins of human trophy heads from the Lower Majes Valley, Peru,” Department of Anthropology and Heritage Studies Colloquium, University of California, Merced, September 15.
- 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, Quilcapampa Archaeological Project (PIs: Justin Jennings, Willy Yépez Álvarez, and Stefanie Bautista)
- 2013-2015 Assistant, Bioarchaeological Stable Isotope Lab, Vanderbilt University (PI: Tiffany Tung)
- 2010 Assistant Bioarchaeologist, Cocahuischo, Peru (PIs: 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, Poggio Civitate, Italy (PI: Nancy DeGrummond)

COURSES TAUGHT

University of California, Merced

- 2021 Bioarchaeology (AHS 179)
- 2021 Peoples, Plagues, and Disease in the Past (AHS 169)

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 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

STUDENT RESEARCH SUPERVISION AND RECOMMENDATIONS

- 2020-2021 Mentor, Student Success Internship, University of California, Merced
Supervising a year-long, remote, paid internship for my Andean Bioarchaeological Isotope Synthesis Project.

- 2020-2021 Undergraduate recommendation letters for PhD programs (5) and the NSF-GRFP (1)
 2020 Committee Member: Camden Hatley, "Creating an Oxygen Isoscape of the Andes from Archaeological Samples." Honor's Thesis, Barrett Honors College, Arizona State University.
 2019-2020 Undergraduate recommendation letters for ASU internal grants (2) and the NSF-REU (1)
 2018-2019 Undergraduate recommendation letters for MA programs (2)

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 Perú, 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, August 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 Anthropometric and Nutrition 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, 16th Prosecutorial District, Durham County, North Carolina
 2005-2006 Criminal Defense Attorney (3rd Year Practice), University of New Hampshire School of Law
 2005-2006 Student Attorney, The 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, 33rd Prosecutorial District, North Carolina
 2004-2005 Student Researcher, University of San Diego Institute of Comparative Law, Antiquities Law

TEXTBOOK PUBLISHED (1)

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

SKILLS AND TRAINING

Bioarchaeological/Forensic 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 and enamel apatite, bone and dentinal collagen), IRMS analysis (gas chromatography), data reduction

Spatial Analysis

- 2013-present Open source GIS: QGIS, Grass, GeoDa
- 2013-present Data Collection: Trimble, ArcCollector, ArcPad, QField
- 2013-present Remote sensing: ENVI (Certificate, Exploring ENVI Class), ERDAS, Agisoft Metashape
- 2011-present ESRI: Arc Info/ Advanced through 10.8 and all extensions, ArcGIS Online, ArcGIS Pro

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), Python (beginner)
- 2011-present Adobe: Photoshop, Illustrator, Captivate

Languages

- 2003-present Spanish (advanced written and spoken-Alta Test Level 9)
- 1998-2002 Italian (beginner written and spoken)
- 2002-2003 Latin (reading knowledge)

PROFESSIONAL ACTIVITIES

Professional Service

- 2020 Findings Verification Committee, Society for American Archaeology (3-year term)
- 2020 Working Group on Ethical Conduct in Andean Studies, Institute of Andean Studies
- 2020 Grant Reviewer, Graduate Women in Science Fellowship
- 2020 Reviewer, PNAS (1)
- 2019-present 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

University of California, Merced Service and Activities

- 2020-present Mentor, Student Success Internship Program
Advising remote student research for the Skeletal and Environmental Isotope Laboratory compiling stable isotope data from the Andes for food web and mixing model research.
- 2020-present Graduate Curriculum Design Committee, Department of Anthropology & Heritage Studies

Arizona State University Service and Activities

- 2020 Internship Mentor, Flinn Foundation Internship Program (funding to Jake Dean)
- 2018-2020 Mentor, Research Apprenticeship Program, Archaeological Chemistry Laboratory

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 Law School
2008-2009 Treasurer, Vanderbilt Anthropology Graduate Student Association

Professional Associations

2020-present Society for Archaeological Sciences
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
2018-2020 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