

ASHLEY E. SHARPE

Research Archaeologist
Smithsonian Tropical Research Institute
Center for Tropical Paleoecology and Archaeology
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Education

- 2016 Ph.D., Anthropology, University of Florida. Dissertation: *A Zooarchaeological Perspective on the Formation of Maya States*
- 2011 M.A., Anthropology, University of Florida Master's Thesis: *Beyond Capitals and Kings: A Comparison of Animal Resource Use among Ten Late Classic Maya Sites*
- 2009 B.A., Archaeology, Minor in Biology, *Magna cum Laude*, Boston University Senior Honors Thesis: *From Ritual to Rubbish: The Maya Zooarchaeological Record from San Bartolo, El Petén, Guatemala*

Academic Awards and Honors

- 2018 National Geographic Society Grant, Project Title: *Socio-Ecological Landscapes of the Guaimoreto Lagoon, Northeast Honduras* (PI: Leslie Reeder-Myers) #NGS-197R-18
- 2017 Smithsonian Institution Research Equipment Award (\$2000)
- 2016 Delores A. Auzenne Dissertation Award, University of Florida (\$12,000)
- 2016 Charles H. Fairbanks Award, Department of Anthropology, University of Florida (\$1000)
- 2015 University of Florida Department of Anthropology and Land Use Environmental Change Institute Travel Grant (\$350)
- 2015 University of Florida CLAS Graduate Student Travel Award (\$300)
- 2015 University of Florida Office of Research Travel Grant (\$200)
- 2015 Latin American Studies Research Clinic Poster Award, University of Florida
- 2014 National Science Foundation Doctoral Dissertation Improvement Grant, Project Title: *A Zooarchaeological Perspective on the Formation of Maya States*, Award No. 1433043 (\$21,192)
- 2014 Sigma Xi Grants-in-Aid of Research, Project Title: *Identifying Animal Resource Exchange at the Onset of Maya State Formation* (\$700)
- 2013 Latin American Studies Tinker Travel Grant, University of Florida (\$933)
- 2013 Bullen Award for Student Excellence in Florida/Circum-Caribbean Anthropology Research, Florida Museum of Natural History (\$300)
- 2012, 2014 Graduate Student Council Travel Grant, University of Florida (\$450)
- 2011, 2012, 2014, 2015 Department of Anthropology Travel Grant, University of Florida (\$800)
- 2010 Dienje Kenyon Memorial Fellowship, Society for American Archaeology (\$500)

2009-2014 University of Florida Graduate Alumni Fellowship
2007-2009 National Science & Mathematics Access to Retain Talent Grant

Publications

- Sharpe, Ashley E., Kitty F. Emery, Takeshi Inomata, Daniela Triadan, George D. Kamenov, and John Krigbaum. 2018. Earliest Isotopic Evidence in the Maya Region for Animal Management and Long-Distance Trade at the Site of Ceibal, Guatemala. *Proceedings of the National Academy of Sciences*: DOI: 10.1073/pnas.1713880115.
- Sharpe, Ashley E., George D. Kamenov, and John Krigbaum. 2018. Mobility and lead isotopes. In *Defining People and their Daily Life in Archaeology*, edited by Lori Wright. The SAS Encyclopedia of Archaeological Sciences. Wiley-Blackwell, Hoboken. DOI: 10.1002/9781119188230.saseas0385.
- Sharpe, Ashley E. 2018. The Ancient Shell Collectors: Two Millennia of Marine Shell Exchange at Ceibal, Guatemala. *Ancient Mesoamerica*. (In Press)
- Pfeiffer, John M., Carla L. Atkinson, Ashley E. Sharpe, Krista A. Capps, Kitty F. Emery, and Lawrence M. Page. 2018. Phylogeny of Mesoamerican freshwater mussels and a revised tribe-level classification of the Ambleminae. *Zoologica Scripta* DOI:10.1111/zsc.12322.
- Pfeiffer, John M., Ashley E. Sharpe, Nathan A. Johnson, Kitty F. Emery, and Lawrence M. Page. 2018. Molecular Phylogeny of the Nearctic and Mesoamerican Freshwater Mussel Genus *Megalonias*. *Hydrobiologia* 811(1):139-151.
- LeFebvre, Michelle J., and Ashley E. Sharpe. 2018. Contemporary Challenges in Zooarchaeological Specimen Identification. In *Zooarchaeology in Practice*, edited by Christina M. Giovas and Michelle J. LeFebvre, pp. 35–57. Springer, Cham.
- Aoyama, Kazuo, Takeshi Inomata, Daniela Triadan, Flory Pinzón, Juan Manuel Palomo, Jessica MacLellan, and Ashley Sharpe. 2017. Early Maya Ritual Practices and Craft Production: Late Middle Preclassic Ritual Deposits Containing Obsidian Artifacts at Ceibal, Guatemala. *Journal of Field Archaeology* 42(5):408–422.
- Inomata, Takeshi, Flory Pinzón, Juan Manuel Palomo, Ashley Sharpe, Raúl Ortíz, María Belén Méndez, and Otto Román. 2017. Public Ritual and Inter-regional Interactions: Excavations of the Central Plaza of Group A, Ceibal. *Ancient Mesoamerica* 28(1):203-232.
- Sharpe, Ashley E., George D. Kamenov, Adrian Gilli, David A. Hodell, Kitty F. Emery, Mark Brenner, and John Krigbaum. 2016. Lead (Pb) Isotope Baselines for Studies of Ancient Human Migration and Trade in the Maya Region. *PLOS ONE* 11(11):e0164871.
- Sharpe, Ashley E. 2016. Un Análisis Isotópico de la Ganadería y Comercio de los Animales en Ceibal. In *Simposio de Investigaciones Arqueológicas XXX, Guatemala*, pp. 1-19. Asociación Tikal, Guatemala.

- deFrance, Susan D., Steven A. Wernke, and Ashley E. Sharpe. 2016. Conversion and Persistence: Analysis of Faunal Remains from an Early Spanish Colonial Doctrinal Settlement in Highland Peru. *Latin American Antiquity* 27(3):300-317.
- Emery, Kitty, Erin Thornton, Ashley Sharpe, Petra Cunningham-Smith, Lisa Duffy, and Brandon McIntosh. 2016. Testing Osteometric and Morphological Methods for Turkey Species Determination in Maya Assemblages. *Journal of Archaeological Science: Reports*. <http://dx.doi.org/10.1016/j.jasrep.2016.08.018>.
- Sharpe, Ashley E. and Kitty F. Emery. 2015. Differential Animal Use within Three Late Classic Maya States: Implications for Politics and Trade. *Journal of Anthropological Archaeology* 40:280–301.
- Sharpe, Ashley E. 2015. Los Animales en la Economía Emergente de Ceibal Preclásico. In *Simposio de Investigaciones Arqueológicas XXIX, Guatemala*, edited by Bárbara Arroyo and Héctor Escobedo, pp. 1-19. Asociación Tikal, Guatemala.
- Sharpe, Ashley E. 2014. A Reexamination of the Birds in the Central Mexican Codices. *Ancient Mesoamerica* 25(2):317-336.
- Sharpe, Ashley E., William A. Saturno, and Kitty F. Emery. 2014. Shifting Patterns of Maya Social Complexity through Time: Preliminary Zooarchaeological Results from San Bartolo, Guatemala. In *Animals and Inequality in the Ancient World*, edited by Sue Ann McCarty and Benjamin Arbuckle, pp. 85-105. University of Colorado Press, Boulder.
- Sharpe, Ashley. 2014. Three Decades Later: A New Look at the Cerro Maya Fauna. In *The Cerros Research Online Catalogue (CROC) Newsletter*, edited by Debra S. Walker, pp. 4-5. Florida Museum of Natural History, Gainesville.

Project Reports and Chapters

- Sharpe, Ashley. 2018. Análisis final de hueso animal y concha. In *Informe del Proyecto Arqueológico Ceibal-Petexbatun la Temporada 2018*, edited by Flory Pinzon and Takeshi Inomata. Report submitted to the Instituto de Antropología e Historia, Guatemala City.
- Sharpe, Ashley, Nicole Smith-Guzmán, and Richard Cooke. 2018. *Análisis Isotópico Preliminar de los Humanos Antiguos de Panamá: Informe para la Resolución N-167 DNP 24*. Report submitted to the Instituto Nacional de Cultura de Panamá, Panama City.
- Sharpe, Ashley. 2018. *Análisis de hueso animal y concha exportado 2017: informe de progreso del primer año*. Report submitted to the Instituto de Antropología e Historia, Guatemala City.
- Serech, Emanuel, Javier Estrada, and Ashley Sharpe. 2018. Análisis de restos óseos de fauna. In *Proyecto Zona Arqueológica Kaminaljuyu Informe de la Temporada de 2017*, edited by Bárbara Arroyo, pp. 134–192. Report submitted to the Instituto de Antropología e

Historia, Guatemala City.

Sharpe, Ashley E. 2016. Animals of the First Maya States: Zooarchaeological and Stable Isotopic Analyses from Ceibal, Guatemala. Released: 2016-03-03. *Open Context*. <<http://opencontext.org/projects/d69293e8-c8a7-4fc0-b3e3-4c2ff23486e6>>, DOI: <http://dx.doi.org/10.6078/M7HH6H0P>.

Sharpe, Ashley. 2016. Análisis de Huesos Animales y Conchas de los Sitios San Bartolo y Xultun. In *Proyecto Arqueológico Regional San Bartolo-Xultun. Informe de Resultados de Investigaciones Temporada de Campo, Año 2016*, edited by Boris Beltrán and William Saturno. Report submitted to the Instituto de Antropología e Historia, Guatemala City.

Sharpe, Ashley. 2015. *Identificación y análisis isotópico de restos animales*. Report submitted to the Instituto de Antropología e Historia, Guatemala City.

Sharpe, Ashley. 2014. Análisis de hueso animal y concha. In *Informe del Proyecto Arqueológico Ceibal-Petexbatun la Temporada 2014*, edited by Flory Pinzón, Jessica MacLellan, and Takeshi Inomata, pp. 150-161. Report submitted to the Instituto de Antropología e Historia, Guatemala City.

Sharpe, Ashley. 2014. Excavaciones en la base de la Plaza Central: Operación CB217A. In *Informe del Proyecto Arqueológico Ceibal-Petexbatun la Temporada 2014*, edited by Flory Pinzón, Jessica MacLellan, and Takeshi Inomata, pp. 29-34. Report submitted to the Instituto de Antropología e Historia, Guatemala City.

Sharpe, Ashley. 2014. Análisis preliminar de los huesos animales y conchas de la región de Holmul, Petén. Report submitted to Director Francisco Estrada-Belli and the Holmul Archaeological Project.

Sharpe, Ashley E. and M. Belén Méndez. 2012. Excavaciones al noreste de la Plaza Central: Operación CB203H. In *Informe del Proyecto Arqueológico Ceibal-Petexbatun la Temporada 2012*, edited by Victor Castillo Aguilar and Takeshi Inomata, pp. 39-57. Report submitted to the Instituto de Antropología e Historia, Guatemala City.

Sharpe, Ashley and Daniela Triadan. 2011. Excavaciones detrás de la Estructura A-15: Operación CB201G. In *Informe del Proyecto Arqueológico Ceibal-Petexbatun la Temporada 2011*, edited by Victor Castillo Aguilar and Takeshi Inomata, pp. 54-58. Report submitted to the Instituto de Antropología e Historia, Guatemala City.

Cortave, Monica, Ashley Sharpe, and Anastasiya Kravtsova. 2011. Excavaciones en la Estructura A-2: Operación 207A. In *Informe de Proyecto Arqueológico Ceibal-Petexbatun la Temporada 2011*, edited by Victor Castillo Aguilar and Takeshi Inomata, pp. 135–143. Report submitted to the Instituto de Antropología e Historia, Guatemala City.

Sharpe, Ashley E. and Kitty F. Emery. 2010. Analysis of Faunal Remains from El Kinel, Guatemala. Report submitted to the Sierra del Lacandón Regional Archaeology Project, Guatemala.

Presentations and Conference Papers

- Sharpe, Ashley E. 2018. *A Zoo for the Dead: The Role of Animals in the Ancient Maya Afterlife*. Invited presentation at the Smithsonian Tropical Research Institute Tupper Seminar Series, Panama City, Panama.
- Sharpe, Ashley E., Emanuel Serech, Javier Estrada, and Bárbara Arroyo. 2018. *Zooarqueología y Paleoambiente del Valle Central de Guatemala*. Paper presented at the 32nd Annual Guatemala Symposium of Archaeological Investigations (Simposio de Investigaciones Arqueológicas XXXII, Guatemala), Museo Nacional de Arqueología y Etnología, Guatemala City, Guatemala.
- Clarke, Mary, and Ashley Sharpe. 2018. *Representaciones y Depósitos: Una mirada conjunta a la fauna asociada a un baño de vapor de período clásico en Xultun*. Paper presented at the 32nd Annual Guatemala Symposium of Archaeological Investigations (Simposio de Investigaciones Arqueológicas XXXII, Guatemala), Museo Nacional de Arqueología y Etnología, Guatemala City, Guatemala.
- Sharpe, Ashley E., Kitty Emery, and John Pfeiffer. 2018. *Bringing Two Halves Together: Combining Modern Phylogenetics and Zooarchaeological Analysis to Understand Past and Present Trends of Freshwater Mussels (Unionidae) in Mesoamerica*. Paper presented at the 83rd Annual Meeting for the Society of American Archaeology, Washington DC, USA.
- Elvir, Wilmer, Ashley Sharpe, and Whitney Goodwin. 2018. *Relaciones Sociales y Medioambientales en Selin Farm a través del Análisis de su Conjunto Arqueomalacológico*. Paper presented at the 83rd Annual Meeting for the Society of American Archaeology, Washington DC, USA.
- Sharpe, Ashley. 2018. *Animal Management in Ancient Central America*. Invited seminar for the Princeton Tropical Biology Program in Panama, Panama City, Panama.
- Sharpe, Ashley E. 2017. *Animals in the Maya World: New discoveries combining zooarchaeology, ancient DNA, and isotope analysis*. Invited presentation at the Smithsonian Museum of Natural History, Anthropology Seminar Series, Washington DC, USA.
- Sharpe, Ashley, Kitty Emery, and John Pfeiffer. 2017. *A Combined Ethnographic and Ecological Survey to Understand the Archaeological Distribution of Freshwater Mussels (Unionidae) at the Maya Site of Ceibal, Guatemala*. Paper presented at the American Anthropological Association 116th Annual Meeting, Washington DC, USA.
- Clarke, Mary and Ashley Sharpe. 2017. *Depictions and Deposits: A Joint Look at the Fauna Associated with a Classic Period Maya Sweat Bath*. Paper presented at the American Anthropological Association 116th Annual Meeting, Washington DC, USA.
- Sharpe, Ashley E. 2017. *A Cross-Regional Shift in the Use of Animal Resources among the*

- Ancient Maya*. Invited presentation at the Smithsonian Tropical Research Institute Tupper Seminar Series, Panama City, Panama.
- Sharpe, Ashley E. 2017. *The Unsustainable Maya State: Examining Animal Resources in Preclassic and Classic Maya Society*. Invited paper presented at the Warfare, Environment, Social Inequality and Peace Studies (WESIPS) Conference. The Center for Cross-Cultural Study, Seville, Spain.
- Sharpe, Ashley E. 2017. *Tracking Ancient Human and Animal Interactions in the Americas with Stable Isotopes*. Invited presentation at the Smithsonian Institute Paleotalk Seminar Series, Panama City, Panama.
- Sharpe, Ashley E. 2017. Symposium chair for the session *Methodological Advances in Isotopic Zooarchaeology*. 82nd Annual Meeting for the Society of American Archaeology, Vancouver, BC, Canada.
- Sharpe, Ashley E. 2017. *Lead (Pb) Isotope Analysis as a Means of Tracking Animal Migration and Trade in Mesoamerica*. Paper presented at the 82nd Annual Meeting for the Society of American Archaeology, Vancouver, BC, Canada.
- Cunningham-Smith, Petra, Ashley Sharpe, Elizabeth Olson, Erin Kennedy Thornton, and Kitty F. Emery. 2017. *Old Dogs, New Tricks: Tracking Dog Management in the Ancient Maya World*. Invited presentation for the electronic symposium, *The Social Uses of Food in Ancient Maya Culture*. 82nd Annual Meeting for the Society of American Archaeology, Vancouver, BC, Canada.
- Sharpe, Ashley E. 2016. *Un Análisis Isotópico de la Ganadería y Comercio de los Animales en Ceibal*. Paper presented at the 30th Annual Guatemala Symposium of Archaeological Investigations (Simposio de Investigaciones Arqueológicas XXX, Guatemala), Museo Nacional de Arqueología y Etnología, Guatemala City, Guatemala.
- Sharpe, Ashley E. 2016. Symposium chair for the session *Applications of Isotope Research in Zooarchaeology*. 81st Annual Meeting for the Society of American Archaeology, Orlando, FL.
- Sharpe, Ashley E. 2016. *Isotopic Evidence of Animal Management and Long-Distance Exchange at the Maya Site of Ceibal, Guatemala*. Paper presented at the 81st Annual Meeting for the Society of American Archaeology, Orlando, FL.
- Sharpe, Ashley E. 2016. *2000-Year Maya Odyssey: Tracking Animal Use and Exchange During the Rise and Fall of a Maya State*. Invited presentation at the Florida Anthropological Student Association 2016 Spring Colloquium, Gainesville, FL.
- Lofaro, Ellen, George Kamenov, Ashley Sharpe, and John Krigbaum. 2016. *Mobility and Contact: The Mission Site of Santa Maria de Yamassee, Amelia Island, Florida*. Paper presented at the 73rd Southeastern Archaeological Conference, Athens, GA.
- Sharpe, Ashley E. 2015. *Los Animales en la Economía Emergente de Ceibal Preclásico*. Paper

presented at the 29th Annual Guatemala Symposium of Archaeological Investigations (Simposio de Investigaciones Arqueológicas XXIX, Guatemala), Museo Nacional de Arqueología y Etnología, Guatemala City, Guatemala.

Sharpe, Ashley E. 2015. *Out of the Jungle: Tracking the Rise of Early Maya States*. Invited presentation at the Institute for Learning in Retirement, Oak Hammock at the University of Florida, Gainesville, FL.

Sharpe, Ashley E. 2015. *Tracking Marine Shell Exchange Among the Earliest Maya*. Invited presentation at the 6th Annual Florida United Malacologists Meeting, Florida Museum of Natural History, Gainesville, FL.

Sharpe, Ashley E. 2015. *Critter Caching: Animals in Household Rituals at the Maya Site of Ceibal, Guatemala*. Paper presented at the 80th Annual Meeting for the Society of American Archaeology, San Francisco, CA.

Sharpe, Ashley E. 2014. *Evidence of Preclassic Long-Distance Exchange at the Maya Site of Ceibal, Guatemala*. Paper presented at the 79th Annual Meeting for the Society of American Archaeology, Austin, TX.

Emery, Kitty, Erin Thornton, Petra Cunningham-Smith, Lisa Duffy, Brandon McIntosh, and Ashley Sharpe. 2014. *Testing Osteometric and Morphological Methods for Turkey Species Determination in Maya Assemblages*. Paper presented at the 12th International Conference for the International Council for Archaeozoology, San Rafael, Argentina.

Sharpe, Ashley E. 2014. *A New Look at Subsistence and Habitat Use at the Preclassic Maya Site of Cerros, Belize*. Florida Museum of Natural History 2014 Student Research Exhibit, Gainesville, FL.

Sharpe, Ashley E. 2014. *What Role did Animal Resources Play in the Development of Maya States?* Florida Museum of Natural History Research Retreat Presentation, Gainesville, FL.

Sharpe, Ashley E. 2013. *Discerning Capital Consumption: A zooarchaeological inquiry into Late Classic Maya political economy*. Paper presented at the Florida Anthropological Student Association 2013 Spring Colloquium, Gainesville, FL.

Sharpe, Ashley E., Kitty F. Emery, Charles Golden, and Andrew Scherer. 2012. *Distinguishing Status in the Maya Menu: Zooarchaeological Evidence from Three Late Classic Polities*. Paper presented at the 77th Annual Meeting for the Society of American Archaeology, Memphis, TN.

Sharpe, Ashley E., William A. Saturno, and Kitty F. Emery. 2010. *From Ritual to Rubbish: The Maya Zooarchaeological Record from San Bartolo, Guatemala*. Paper presented at the 75th Annual Meeting for the Society of American Archaeology, St. Louis, MO.

Sharpe, Ashley E. 2009. *The Maya Zooarchaeological Record from San Bartolo, El Petén, Guatemala*. Poster presentation for the session "Mesoamerica, Caribbean, and Survey

Methods.” 74th Annual Meeting for the Society of American Archaeology, Atlanta, GA.

Professional Research Positions

- 2016 - Present Research Archaeologist, Center for Tropical Paleoecology and Archaeology, Smithsonian Tropical Research Institute, Panama City, Republic of Panama.
- 2015 Faunal Analyst, Everglades Restoration Transition Project, Environmental Archaeology Program, Florida Museum of Natural History, Gainesville, FL.
- 2014 - 2016 Curatorial Assistant to Dr. Kitty Emery. Assist in the compilation and organization of archaeological materials (faunal, botanical, and soils) and data records for a museum database. Photographed and compiled an online virtual comparative collection of museum skeletal material (<http://www.flmnh.ufl.edu/envarch-gallery/>). Environmental Archaeology Program, Florida Museum of Natural History, Gainesville, FL.
- 2012 – 2016 Isotope Analyst. Sample preparation and stable isotopic analysis (carbon, nitrogen, oxygen, strontium, and lead) on human and animal remains from various sites under the direction of Dr. John Krigbaum. Experience using both ICP-MS and TIMS procedures. Department of Anthropology and Department of Geological Sciences, University of Florida, Gainesville, FL.
- 2012 - 2016 Research Assistant, *Re-examining the History of Turkey Husbandry in the Maya Lowlands*. Osteometric and statistical analysis on skeletal material to distinguish wild from domesticated taxa. Principal Investigators: Erin Thornton and Kitty Emery. Florida Museum of Natural History, Gainesville, FL.
- 2012 Research Assistant, *Conversion or Synthesis? Investigating Early Colonial Negotiations of New Religious and Social Forms at Malata, an Inka Provincial Village and Mission Settlement in Highland Peru*. Assisted in the quantification and interpretation of specimen data. Principal Investigator: Steven Wernke, Vanderbilt University. Project Zooarchaeologist: Susan deFrance, University of Florida, Gainesville, FL.
- 2012 Research Assistant. Organized data from the analysis of archaeological fauna remains from the sites of Punta Picata, and Tacahuay Tambo, Peru, and St. Anthony's Garden (16OR443), New Orleans, LA, under direction of principal zooarchaeologist Dr. Susan deFrance. Department of Anthropology, University of Florida, Gainesville, FL.
- 2011 Museum Archivist, Cerros Research Project. Organized, digitized, and curated excavation records and artifactual materials under direction of Dr. Susan Milbrath. Latin American Archaeology Collection, Florida Museum of Natural History, Gainesville, FL.

- 2009 - 2014 Research Assistant/Faunal Analyst. Analysis of faunal remains from various archaeological projects under the direction of Dr. Kitty Emery. Environmental Archaeology Program, Florida Museum of Natural History, Gainesville, FL.
- 2009 - 2011 Faunal Analyst, Sierra del Lacandón Regional Archaeological Project, Guatemala. Project Directors: Charles Golden, Brandeis University; Andrew Scherer, Brown University; Ana Lucia Arroyave, Universidad de San Carlos/Instituto de Antropología e Historia de Guatemala.

Ongoing Research Projects

- 2016 – Present Faunal Analyst, Kaminaljuyu Archaeological Project, Guatemala City, Guatemala. Project Director: Barbara Arroyo, Francisco Marroquín University.
- 2012 – Present Faunal Analyst, Holmul Archaeological Project, Antigua, Guatemala. Project Director: Francisco Estrada-Belli, Tulane University.
- 2010 - Present Faunal Analyst, Ceibal-Petexbatun Archaeological Project, Guatemala City, Guatemala. Project Directors: Takeshi Inomata and Daniela Triadan, University of Arizona; Flory Pinzón, Universidad de San Carlos, Guatemala.
- 2009 – Present Faunal Analyst, San Bartolo-Xultun Archaeological Project, Antigua, Guatemala. Project Directors: William Saturno, Boston University; Yasmin Cifuentes and Boris Beltran, Instituto de Antropología e Historia de Guatemala.

Archaeological Excavation and Fieldwork Experience

- 2017-Present Azuero and Veraguas Archaeological Survey, Panama.
- 2011-2012, 2014 Ceibal-Petexbatun Archaeological Project, El Petén, Guatemala. Project Directors: Takeshi Inomata and Daniela Triadan, University of Arizona; Flory Pinzón, Universidad de San Carlos, Guatemala.
- 2012 Holmul Archaeological Project, El Petén, Guatemala. Project Director: Francisco Estrada-Belli, Tulane University.
- 2009 Tell Es-Sweyhat Archaeological Project, Syria. Project Director: Michael Danti, Boston University.
- 2008 San Bartolo-Xultun Regional Archaeology Project, El Petén, Guatemala. Project Directors: William A. Saturno, Boston University, and Monica Urquizu, Instituto de Antropología e Historia de Guatemala.

Teaching Experience

Smithsonian Tropical Research Institute (2017-Present):

- Advisor for four Smithsonian Short Term Fellows, co-advisor for one Postdoctoral Fellow
- Advised/assisted various students and volunteers working on archaeology or isotope-related projects in the Center for Tropical Paleoecology and Archaeology and Naos Archaeological Laboratory, Panama City, Panama

University of Florida, Department of Anthropology (2011-2016):

- Instructor:
Introduction to World Archaeology. Summers 2013 and 2014. Developed original course syllabus and lectures, taught all lectures five days a week (each 75 minutes), chose and developed reading assignments, arranged and oversaw lab activities, wrote and graded original exams, quiz, and research assignments.
- Teaching Assistant and Lab Instructor:
Principals of Archaeology. Fall 2012. Instructor: Dr. Susan Gillespie.
Introduction to World Archaeology. Summer 2012. Instructor: Jeffrey Vadala.
Taught the laboratory portion of both courses, including indoor and outdoor field and labwork activities. Developed activities and lab lectures. Graded all homework and exam assignments.
- Teaching Assistant and Grader:
The Incas and Their Ancestors. Spring 2016. Instructor: Dr. Michael Moseley.
General Anthropology. Summer 2011, Spring 2016. Instructor: Nicholas Kawa (2011), Deborah Andrews (2016).
Lost Tribes and Sunken Continents. Fall 2011 and 2013. Instructor: Dr. Michael Moseley.
Assisted in writing and grading exams, homework assignments, and research reports. Developed and taught at least one lecture each semester.
- Lab Technician (2012-2016):
Bone Chemistry Laboratory. Trained over a dozen students and visiting researchers in isotopic geochemical analysis (sample preparation, ion chromatography separation, and mass spectrometry analysis) who shadowed procedures. Samples included human and animal bone/enamel, shell, water, soil, rock, and metal remains from various archaeological sites, in addition to modern baseline samples. Isotopes analyzed included carbon, nitrogen, oxygen, strontium, and lead. Supervisor: Dr. John Krigbaum.

Public and Professional Service

- 2018 Isotope research on ancient human remains in Panama featured on Smithsonian's Sidedoor Podcast, Season 3 Episode 2 "The Mystery Bones of Witch Hill", <https://www.si.edu/sidedoor/ep-2-mystery-bones-witch-hill>
- 2017 Designed and submitted a trilingual (Spanish/English/Q'eqchi') poster and

pamphlet for the Ceibal Archaeological Park visitor's center. English Title:
Humans and Animals at the Archaeological Site of Ceibal.

- 2016 Speaker at the Rain Forest Stories Summer Camp, Florida Museum of Natural History, Gainesville, FL.
- 2015 Graduate student volunteer for the Ask-a-Scientist, Earth Day, First Colony, and She's a Scientist events at the Florida Museum of Natural History's Education and Exhibition Center (Powell Hall), Gainesville, FL.
- 2014-2016 Graduate Student Representative for the Department of Natural History Website Committee, Florida Museum of Natural History, Gainesville, FL.
- 2013 Website Designer/Developer, Department of Anthropology, University of Florida, Gainesville, FL.
- 2012-2016 Website Designer/Developer, Environmental Archaeology Program, Florida Museum of Natural History, Gainesville, FL.
- 2010-2011 Colloquium Coordinator, Florida Anthropological Student Organization, University of Florida, Gainesville, FL.
- 2006-2009 Secretary and Website Designer, Environmental Student Organization, Boston University, Boston, MA.
- 2006-2008 Visitor Service, Heritage Museums and Gardens, Sandwich, MA.

Journal Manuscript Reviewer

Advances in Archaeological Practice
American Journal of Physical Anthropology
Ancient Mesoamerica
Archaeological and Anthropological Sciences
Cambridge Archaeological Journal
Chungara Revista de Antropología Chilena
Journal of Ethnobiology
Latin American Antiquity
PLOS ONE

Professional Membership

- 2017 – Present American Anthropological Association
2017 – Present Register of Professional Archaeologists
2014 – Present Sigma Xi Scientific Research Society
2014 – Present Society for Archaeological Sciences
2011 – Present Society of Ethnobiology
2009 – Present International Council for Archaeozoology
2008 – Present Society for American Archaeology