

Carolyn Freiwald, PhD

University of Mississippi
Department of Sociology and Anthropology
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RESEARCH INTERESTS

Maya, Mesoamerica, Osteology
Archaeological Chemistry,
Zooarchaeology, Migration

EDUCATION

- 2011 PhD, Anthropology, University of Wisconsin – Madison
Maya Migration Networks: Reconstructing Population Movement in the Belize River Valley during the Late and Terminal Classic
- 2004 MS, Anthropology, University of Wisconsin – Madison
- 1989 BA, History and International Relations, University of Wisconsin – Madison

ACADEMIC POSITIONS

- 2013-present Assistant Professor, Department of Sociology and Anthropology, University of Mississippi
- 2012-2013 Visiting Assistant Professor, Department of Sociology and Anthropology, University of Mississippi
- 2012-present Honorary Fellow, Department of Anthropology, University of Wisconsin – Madison
- 2010 Adjunct Faculty, University of Wisconsin Richland Center, Introduction to Anthropology
- 2009-2012 Archaeologist, University of Wisconsin-Madison, Zoology 699
- 2008-2010 Instructor, University of Wisconsin-Madison, Spanish 101 and 102
- 2005-2007 Teaching Assistant, University of Wisconsin-Madison, Anthropology 112 and 338
- 2003 Teaching Assistant, University of Wisconsin-Madison, Anthropology 101

PUBLICATIONS IN PROCESS

- Freiwald, C. and T. Pugh. The origins of early Colonial Cows at San Bernabé, Guatemala: Strontium isotope values at an early Spanish mission in the Petén Lakes region of northern Guatemala. Special edition of *Environmental Archaeology: The Journal of Human Paleoeology*, edited by E. Christian Wells, Diane Wallman, and Isabel Rivera-Collazo. In review.
- Freiwald, C. and K. Miller. A strontium isotope map of western Honduras and its implications for Maya archaeology. In preparation.
- Freiwald, C. Barton Ramie and in-migration to the Belize River Valley: Strontium isotopes and burial patterns . In *Ancient Mesoamerican Cities: Populations on the Move*, edited by M. Charlotte Arnauld, Christopher Beekman, and Grégory Pereira. University Press, Colorado. In review May 2015.
- Hoggarth, J., C. Freiwald, and J. Awe. Evidence for Classic and Postclassic population movement at Baking Pot, Belize. In *Ancient Mesoamerican Cities: Populations on the Move*, edited by M. Charlotte Arnauld, Christopher Beekman, and Grégory Pereira. University Press, Colorado. In review May 2015.
- Freiwald, C. The biogeochemistry of childhood diet and migration among the Maya. Edited by Andrew Somerville and Melanie Beasley. In *Exploring Human Behavior through Isotope Analysis: Applications in Archaeological Research*, edited by Andrew Somerville and Melanie Beasley. Springer. In review Nov. 2016.

JOURNALS, BOOK CHAPTERS, AND CONFERENCE PROCEEDINGS

- 2017 Wrobel, G. D., C. Freiwald, S. Gibbs, A. Michaels, and J. Awe. Social identity and geographic origin of Maya burials at Actun Uayazba Kab, Roaring Creek Valley, Belize. *Journal of Anthropological Archaeology* 45:98-114.
- 2016 Pugh, T. W., K. Miller, C. Freiwald, and P. M. Rice. Technologies of domination at Mission San Bernabé, Petén. *Ancient Mesoamerica* 27(1):49-70.

- 2015 Patterson, E. and C. Freiwald. Migraciones regionales en las Tierras Bajas Centrales: nuevos valores de isótopos de estroncio en La Corona y El Perú-Waka'. *Proceedings of the XXVI Simposio de Investigaciones Arqueológicas en Guatemala*.
- 2014 Freiwald, C., D.W. Mixter, and N. Billstrand. Burial Practices at Actuncan: A Seated Burial and Ongoing Analysis from the 2001-2013 Field Seasons. *Research Reports in Belize Archaeology* 11:95-110.
- 2014 Wrobel, G., C. Helmke, C. Freiwald, and J. Awe. Caves of the ancestors: A case study of reverential cave use from Je'reftheel, Central Belize. In *The Bioarchaeology of Space and Place: Ideology, Power and Meaning in Maya Mortuary Contexts*, edited by G. D. Wrobel, pp. 77-106. Springer Press.
- 2014 Freiwald, C., J. Yaeger, J. Awe, and J. Piehl. Isotopic insights into mortuary treatment and origin at Xunantunich, Belize. In *The Bioarchaeology of Space and Place: Ideology, Power and Meaning in Maya Mortuary Contexts*, edited by G. D. Wrobel, pp.107-141. Springer Press.
- 2014 Meiggs, D. C. and C. Freiwald. Bioarchaeological approaches to human migration. In *Encyclopedia of Global Archaeology*, edited by A. Simon and C. Wells, pp. 3583-3545. Springer-Verlag.
- 2011 Freiwald, C. Patterns of population movement at Xunantunich, Cahal Pech, and Baking Pot during the Late and Terminal Classic (AD 600-900). *Research Reports in Belize Archaeology* 9:89-100.
- 2010 Freiwald, C. Dietary diversity in the upper Belize River valley: interpreting Late Classic foodways using chemistry and zooarchaeology at Xunantunich. In *Pre-Columbian Foodways: Interdisciplinary Approaches to Food, Feasting, and Festivals in Ancient Mesoamerica*, edited by John E. Staller and Michael Carrasco, pp. 399-420. Springer Verlag, New York.
- 2009 Yaeger, J. and C. Freiwald. Complex ecologies: Human and animal responses to ancient landscape change in central Belize. *Research Reports in Belizean Archaeology* 8:83-92.

POPULAR ARTICLES

- 2010 Freiwald, C. Archaeological Chemistry. *Imagine* 18(2):18-19. Johns Hopkins University Center for Talented Youth.
- 2007 Freiwald, C. Trachte Photo Gallery. <http://www.madisontrust.org/gallery/trachte/index.html>
- 2005 Freiwald, C. (Catalog Editor) Christiane Clados' *Reconstructing the Pre-Columbian World*.
- 2004 Freiwald, C. Downtown Madison Loses One Building after Another. *Isthmus* 3/5/04.

TECHNICAL REPORTS

- Freiwald, C., K. Miller Wolf, and T. Pugh. *Los orígenes de la gente de San Bernabé: Muestras isotópicas de la gente y sus animales domésticos durante las primeras décadas de colonialismo en el Petén, Guatemala*. Report (ed. T. Pugh). In preparation for submission to the Instituto de Antropología e Historia (IDEAH), Guatemala City, Guatemala.
- 2016 Freiwald, C. *La fauna de Ucanal: la primera temporada de análisis*. Report (ed. C. Halperin) submitted to the Instituto de Antropología e Historia (IDEAH), Guatemala City, Guatemala.
- 2016 Freiwald, C. Faunal analysis, in *Maintaining the state: Centralized power and ancient neighborhoods*. Kristin Landau PhD dissertation. Department of Anthropology. Northwestern University.
- 2016 Patterson, E. and C. Freiwald. Análisis de Isótopos Estables: Redes de Migración: La Corona Muestras Exportado en 2013 y 2014. Report submitted to the Instituto de Antropología e Historia (IDEAH), Guatemala City, Guatemala.
- 2016 Freiwald, C., K. Miller, and T. Pugh. *¿Quién está enterrado en la misión San Bernabé? Un estudio de isotópica y biológico de un de las primeras misiones coloniales en el Petén, Guatemala*. Report submitted to the Instituto de Antropología e Historia (IDEAH), Guatemala City, Guatemala.
- 2016 Freiwald, C. *La fauna de Nixtun Ch'ich'*. Report submitted to the Instituto de Antropología e Historia (IDEAH), Guatemala City, Guatemala.

- 2015 Patterson, E. and C. Freiwald. *Análisis de Isótopos Estables: Redes de Migración: El Perú-Waka' Muestras Exportado en 2013 y 2014*. Report submitted to the Instituto de Antropología e Historia (IDEAH), Guatemala City, Guatemala.
- 2015 Freiwald, C. with contributions by G. Tucker Austin and Nicholas Billstrand. Life and death at Actuncan: An Examination of Burial Treatment and Taphonomy. In *Actuncan: Report of the 2014 Field Season*, edited by Lisa J. LeCount. Report on file at the Belize Institute of Archaeology, Belmopan.
- 2014 Simova, B. with contributions by C. Freiwald and N. Billstrand. Continuing excavations at Structure 73. In *Actuncan: Report of the 2013 Field Season*, edited by Lisa J. LeCount. Report on file at the Belize Institute of Archaeology, Belmopan.
- 2014 Freiwald, C. and N. Billstrand. Burial 11 in Structure 41 at Actuncan, Belize. In *Actuncan: Report of the 2013 Field Season*, edited by Lisa J. LeCount. Report on file at the Belize Institute of Archaeology, Belmopan.
- 2013 Freiwald, C. Resultados Iniciales del Análisis de Fauna. In *Proyecto Arqueológico Tayasal: Informe presentado al Instituto de Antropología e Historia de la temporada de investigaciones 2012*, edited by Timothy Pugh and Carlos H. Sánchez, pp. 58-69. Report submitted to the Instituto de Antropología e Historia (IDEAH), Guatemala City, Guatemala.
- 2013 Mixter, D. and C. Freiwald. Excavations at Group 8. In *Actuncan: Report of the 2012 Field Season*, edited by Lisa J. LeCount. Report on file at the Belize Institute of Archaeology, Belmopan.
- 2013 Freiwald, C. and D. Micklin. Burial practices at Group 1. In *Actuncan: Report of the 2012 Field Season*, edited by Lisa J. LeCount. Report on file at the Belize Institute of Archaeology, Belmopan.
- 2013 Freiwald, C. Recording and excavation techniques for comingled burials. In *Actuncan: Report of the 2012 Field Season*, edited by Lisa J. LeCount. Report on file at the Belize Institute of Archaeology, Belmopan.
- 2012 Freiwald, C. Appendix VI: Human Skeletal Remains, Independent Report #5. In *The Integration and Disintegration of Ancient Maya Urban Centres: Charting Households and Community at Buenavista del Cayo, Belize*, pp. 664-668. PhD dissertation by Meaghan Peuramaki-Brown, Department of Anthropology, University of Calgary.
- 2012 Freiwald, C. Osteological and contextual analysis of Callar Creek human remains from Structure 14. In *Negotiating the Contradictions of Political Authority: An Archaeological Case Study from Callar Creek, Belize*, PhD dissertation by Sarah Kurnick, Department of Anthropology, University of Pennsylvania.
- 2012 Freiwald, C. Woodland faunal use at 21CP68, Montevideo, MN. Report of 2011 excavations by Great Lakes Archaeological Research Center, edited by J. R. Haas.
- 2012 Freiwald, C. Plains Woodland subsistence strategies at site 32RY473, Ramsey County, North Dakota. In *Phase III Mitigation for Archaeological Site 32RY473, Ramsey County, North Dakota*, edited by J. R. Haas.
- 2012 Freiwald, C. Actuncan Burials: The 2011 Field Season. In *Actuncan 2011 Field Report*, edited by Lisa LeCount and Angela Keller. Report submitted to the Belize Institute of Archaeology, Belmopan, Belize.
- 2012 Freiwald, C. Resultados Iniciales del Análisis de Fauna. In *Proyecto Arqueológico Tayasal: Informe preliminar presentado al Instituto de Antropología e Historia de Guatemala de las temporadas de investigaciones 2010-2011*, edited by Timothy Pugh and José Rómulo Sánchez Polo, pp. 104-110. Report submitted to the Instituto de Antropología e Historia (IDEAH), Guatemala City, Guatemala.
- 2008 Freiwald, C. City of Madison Landmark Nomination: Schubert Building (1908).
<http://legistar.cityofmadison.com/attachments/23fdd85c-6928-4c22-985a-8303f2b7cb2a.pdf>
- 2005 Freiwald, C. City of Madison Landmark Nomination: Suhr Building (1885-1887).
http://www.cityofmadison.com/planning/landmark/nominations/166_125StateStreet.pdf

FUNDING

- 2015 University of Mississippi ORSP Investment Grant (\$4239)
Archaeological chemistry: Identifying migration and trade in Mesoamerica

2015 Hurricane Creek, MS faunal analysis, Co-PI Jay Johnson (\$2491) Zooarchaeological analysis of Mississippian-era mound site remains.

2015 University of Mississippi Summer Research Grants (\$9412)
Tayasal Archaeological Project analyses of fish and marine shell remains

2014 Graduate Women in Science Nell Mondy Fellowship (\$8525)
Migration, diet, and dynasty at the sites of La Corona and El Perú -Waka', Guatemala

2014 OSRP Faculty Travel Support Grant (\$1500)
International Council of Archaeozoology Conference, San Rafael, Argentina

2014 University of Mississippi Summer Research Grants (\$9412)
Changing catchments and culinary patterns at the cusp of the Colonial period

2013-2014 Southeastern Conference Faculty Travel Grant (\$1000)
University of Florida Department of Anthropology osteology research and presentation

2009-2010 UW-Madison College of Letters and Sciences Teaching Fellow
Teaching award, including providing campus-wide training to UW-Madison teaching assistants

2009-2010 SDE/GWIS Eloise Gerry Fellowship (\$3000)
Sigma Delta Epsilon Graduate Women in Science national research scholarship

2009-2010 UW-Madison Vilas International Travel Award (\$1000)
Travel grant to support research trip to Belize and University of Illinois at Champaign – Urbana

2008-2009 Ruth Dickie Scholarship (SDE-GWIS)
UW-Madison Graduate Women in Science research scholarship

2007 Miller Prize in Anthropology, UW-Madison (\$100)
Recognition of innovation in teaching anthropology

2006-2009 UW-Madison Anthropology Department Travel Grant
Annual grant awarded for research in Chiapas, Mexico, and at the Peabody Museum at Harvard

2005 Nave Summer Research Grant
Study of geologic regions and archaeological sites in Chiapas, Mexico as part of predissertation research

2003-2005 Foreign Language and Area Studies fellowships (FLAS)
Two one-year FLAS fellowships to study the Spanish and Yucatec Maya languages

PEER REVIEW

Journal of Archaeological Chemistry, Ancient Mesoamerica, Journal for Anthropological Archaeology, Antipoda-Revista de Antropología y Arqueología, PLoS ONE, Journal of Field Archaeology, International Journal of Osteoarchaeology, Latin American Antiquity, Environmental Archaeology: The Journal of Human Palaeoecology, Estudios de Cultura Maya, Archaeological and Anthropological Sciences.

Institutions: CERMA-Mondes Américains École des hautes Études en Sciences Sociales. Grants: National Science Foundation senior proposals and dissertation improvement grants, Graduate Women in Science National Fellowship Program committee member and reviewer, University of Mississippi Office of Research and Sponsored Programs Investment Grant reviewer.

Book essay review: Dietary, Environmental, and Societal Implications of Ancient Maya Animal Use in the Petexbatun: A Zooarchaeological Perspective on the Collapse by Kitty F. Emery. Reviewed in the *SAS Bulletin Newsletter for the Society for Archaeological Sciences* 33(4):28-29.

INVITED PRESENTATIONS

2016 University of Alabama Department of Anthropology Brown Bag Series (10/21/16, Tuscaloosa, AL). Life in an early Colonial Spanish Mission: Migration, health, and trade at San Bernabé, Guatemala

2016 Graduate Women in Science National Conference poster presentation (6/25/16, Raleigh, NC) A. Leavitt, C. Freiwald, E. Patterson, P. Fullagar, D. Dettman, T. D. Price. *Identifying Migration Using Elemental and Isotopic Variables from El Perú-Waka' and La Corona, Guatemala*

- 2016 UM/UMMC Research Day (3/6/16, Jackson, MS) 3-minute research presentation
- 2015 Maya week at The University of Southern Mississippi (10/1/16, Hattiesburg, MS) Migration, culture change, and the arrival of the Spanish in the last independent Maya Kingdom
- 2015 UM-Mississippi State 2nd annual Anthropology Lecture Series (3/23/15, Starkville, MS) Maya burials and beliefs: Funerary treatment in a Classic Maya household
- 2013-2017 University of Wisconsin – Madison Physician Assistant Program (February 2013, March 2014-2016, Madison, WI) *Introduction to Belize culture* physician assistants preparing for their annual service trip.
- 2014 Tulane Maya Symposium and Workshop, Middle American Research Institute (3/22/14, New Orleans, LA) On the Maya Trail: Ancient Traveler's, Epic Voyages. *Mapping Maya Migration Networks during the Classic Period*
- 2013 CUNY Graduate Program Anthropology Program DCS Sponsored Archaeology Talk (Oct. 2013, New York). *Burial Customs of the Classic Maya: A 1300-yr- old Burial Ground at Actuncan, Belize*
- 2013 University of Mississippi Department of Sociology and Anthropology Fall Lecture Series (October 2013, Oxford, MS) Burial customs of the Classic Maya: A 1300-yr-old household burial ground at Actuncan, Belize
- 2013 Rochester Institute of Technology (January 2013, Rochester, NY) Maya migration networks: Reconstructing population movement in the Belize River Valley during the Late and Terminal Classic.
- 2012 Washington University in St. Louis (Dec. 2012. St. Louis, MO) Maya Migration Networks: Reconstructing Population Movement in the Belize River Valley during the Late and Terminal Classic.
- 2011 University of Mississippi Department of Anthropology (Dec. 2011, Oxford, MS) *Maya Migration Networks: Reconstructing Population Movement in the Belize River Valley during the Late and Terminal Classic*
- 2011 UW-Madison Department of Anthropology Brown Bag Lecture Series (Sept. 2011) *Sitio Arqueológico Tayasal: The Itzá Maya, Spanish animals, and archaeology in Guatemala*
- 2005 Anthrocircle Spring Seminar (April 2005, Madison, WI) *Reconstructing Classic Maya Animal Use: A Zooarchaeological Study from Belize*

CONFERENCE PRESENTATIONS

- 2017 podium presentations: Society for American Archaeology annual meeting (3/30/17, Vancouver, CA) Organizers of the Curating the past: The practice and ethics of skeletal conservation session (with K. Miller Wolf). *A step-by-step guide to excavating burials, or how a bioarchaeologist can be in two (or three) places at once*. Also Brown, M.K. and C. Freiwald *Blackman Eddy fauna and Preclassic ritual (working title)*
- 2017 podium presentation: American Association of Physical Anthropologists (4/21/17, New Orleans, LA) Freiwald, C., K. Miller Wolf, and T. Pugh *Early Spanish colonialism in Northern Guatemala: Identifying Itza Mayas at the Mission San Bernabé using Strontium, Carbon, and Oxygen Isotope Assays and Biodistance Analyses*
- 2016 Belize papers Belize Archaeology and Anthropology Symposium (June 2016, San Ignacio, Belize) Contributions to papers by M. K. Brown et al. and Awe et al.
- 2016 Society for American Archaeology annual meeting (April 2016, Orlando, FL) Freiwald, C. and T. Pugh *Strontium isotope values for early Colonial cows at San Bernabé, A Spanish Mission in the Peten Lakes Region of Guatemala*; Patterson, E. and C. Freiwald *Mobility in the central Maya lowlands: Strontium, oxygen, and Carbon isotope values from La Corona and El Perú-Waka'*. Orsini, S., C. Freiwald, and K. Prufer *Changing food choices from Paleoindian to Classic Maya periods: A zooarchaeological analysis*; Austin, T., C. Freiwald, H. Niles, and T. Pugh *Animal use at Nixtun-Ch'ich': Preclassic canids, Postclassic crocodiles, and Contact period cows*
- 2015 Intercontinental Conference of the Americas (July 2015, San Salvador, El Salvador) J. Hoggarth, C. Freiwald, and J. Awe *Identity and Migration in the Belize Valley during the Classic and Postclassic periods*
- 2015 Simposio de Investigaciones Arqueológicas en Guatemala (July 2015, Guatemala City) Patterson, E and C. Freiwald *Migraciones regionales en las Tierras Bajas Centrales: nuevos valores de isótopos de estroncio en La Corona y El Perú-Waka'*

- 2015 Society for American Archaeology annual meeting (April 2015, San Francisco, CA) Freiwald, C., K. Miller Wolf, and T. Pugh *The Effect of Missionization on the Itza Maya from Isotopic and Biodistance Evidence*
- 2015 The Midwest Conference on Mesoamerican Archaeology and Ethnohistory (March 2015, Murfreesboro, TN) Burial Practices in the Americas: Funerary Treatment and Taphonomy in a Classic Maya household
- 2014 12th International Council on Archaeozoology (Sept. 2014, San Rafael, Argentina) *Preclassic animal use at Blackman Eddy, Belize* Freiwald, C. and M. K. Brown
- 2014 Society for American Archaeology annual meeting Hoggarth, J. C. Freiwald, A. Novotny, and J. Awe *Using Multivariate and Quantitative Methods for Understanding Diachronic Change: Classic to Postclassic Household and Community Dynamics at Baking Pot, Belize*; Freiwald, C. K. Miller, T.D. Price, J. Burton, P. Fullagar, C. Wells *Mobility and migration over Mesoamerica in Classic and Postclassic times*; Shiratori, Y., C. Freiwald, and T. Pugh *Recent Work at Nixtun Ch'ich' and Tayasal, Peten, Guatemala*
- 2013 American Anthropological Association annual meeting (Nov. 2013, Chicago) *The meaning of Maya migration: Bone chemistry and burial treatment in the Eastern Lowlands*
- 2013 Belize Archaeology and Anthropology Symposium (July 2013, San Ignacio, Belize) *An Actuncan Burial Ground: A Biocultural Analysis of Funerary Treatment and Taphonomy*
- 2013 Society for American Archaeology annual meeting (April 2013, Honolulu, HI) *Urban and Rural Population Movement Patterns during the Late and Terminal Classic in the Belize River Valley*
- 2013 American Chemical Society national meeting Miller, K. and C. Freiwald *Identifying ancient population movement in Honduras using strontium and oxygen isotopes: New values and interpretations*
- 2012 Society for American Archaeology annual meeting (April 2012, Memphis) Freiwald, C. and Stanley Ambrose *Adult and childhood diet in the Belize River Valley: Classic Maya dietary differences seen through isotope assays*
- 2011 Society for American Archaeology annual meeting (April 2011, Sacramento) Freiwald, C. J. Yaeger, J. Awe, C. Helmke, J. Garber, and J. Piehl *Local Mobility, Imported Ceramics: Isotopic Insights into Mortuary Treatment and Political Authority in the UBRV*
- 2010 American Anthropological Association annual meeting (Nov. 2010, New Orleans) *Reconstructing population movement in the Belize River Valley during the Late and Terminal Classic: an isotopic and contextual model of ancient Maya migration*
- 2010 11th International Council for Zooarchaeology (August 2010, Paris) Freiwald, C. J. Yaeger, T. D. Price, and J. H. Burton *Late Classic Maya Resources Management: A Case Study from the Belize River Valley*
- 2010 International Council for Zooarchaeology poster presentation (August 2010, Paris) Freiwald, C. and E. E. Pilleart *Zooarchaeology in modern settings: the life and death of the Galapagos sea lion (*Z. wolfebaeki*)*
- 2010 Belize Archaeology Symposium (July 2010, Belize City) *Population movement in the Belize River Valley: An isotopic analysis of migration and its meaning among the Late Classic Maya*
- 2010 Central States Anthropological Society (March 2010, Madison, WI) *Identity and population movement in the Belize River Valley: a contextual and isotopic analysis of migration and its meaning among the Late Classic Maya*
- 2010 Society for American Archaeology annual meeting (April 2009, Atlanta) *Identity and the non-local population of Xunantunich, Belize: a contextual isotopic analysis*
- 2009 Belize Archaeology Symposium (July 2008, Belize City) Freiwald, C. and J. Yaeger *Complex Ecologies: Human and Animal Response to Ancient Landscape Change in Central Belize*
- 2008 Society for American Archaeology annual meeting (March 2008, Vancouver) Freiwald, C. and T. D. Price Poster session: *Classic Maya Migration Networks: methods for studying population movement in Belize*
- 2007 Chacmool Conference (Nov. 2007, University of Calgary) *Mobile Maya menus: Complications in interpreting Classic period diet*
- 2007 Society for American Archaeology annual meeting (April 2007, Austin) *Identifying environmental and hunting practices in the upper Belize River valley*

- 2007 Midwest Mesoamerican Conference (March 2007, Chicago) *Colonialism and Integration: A Zooarchaeological Analysis of the Subsistence Practices of the San Pedro Maya*
- 2006 International Council for Zooarchaeology (August 2006, Mexico City) Freiwald, C. and J. Yaeger *Interpreting missing patterns: Maya zooarchaeology from Xunantunich, Belize; and identifying environmental and hunting practices at San Lorenzo, Belize using strontium, carbon, and oxygen isotopes*
- 2005 Midwest Mesoamerican Conference (March 2005, Bloomington, IN) *An interpretation of faunal remains at Group B, Xunantunich: A preliminary report*

RESEARCH

- 2016-2018 New Salem Cemetery Relocation. Biogeochemical analysis of historic cemetery in Clinton, MS. PI Tony Boudreaux.
- 2016-present Mopan Valley Archaeological Project and Mopan Valley Preclassic Project, Belize. Project osteologist (human remains and non-human fauna). Directors M. Kathryn Brown and J. Yaeger.
- 2014-present Development and Resilience of Complex Socioeconomic Systems: A Theoretical Model and Case Study from the Maya Lowlands. Faunal analysis of Paleoindian to Classic Period cave use in southern Belize. Project director Keith Prufer
- 2015 Residential faunal use at Copan Analysis of residential faunal assemblage for the Proyecto Arqueológico de los Barrios de Copán, directed by Kristin Landau
- 2013-2015 Reconstructing residential life histories and the demography profile of migration at La Corona and El Peru Waka', Guatemala Isotopic and osteological research on ancient Maya
- 2012 UW-Madison Zoological Museum Archaeological Collections Project Curate, inventory and research the collection history of 1950s and 1960s archaeological assemblages from Alaska, and the upper Midwest
- 2011-2012 Siete Templos Project, Tikal. Analysis of fauna in multiple Late Classic offerings
- 2010-2012 Chiapa de Corzo Archaeological Project, Mexico Bone chemistry analysis of human remains. Project Directors: Bruce R. Bachand and Emiliano Gallaga Murrieta
- 2009-2011 NAGPRA Consultation and Documentation grant. Osteological analysis of human remains and historic research at the UW-Madison Department of Anthropology
- 2008-2013 UW-Madison Zoological Museum Galápagos pathology project Analysis of museum collection of salvage-collected Galápagos endemic fauna
- 2007-2008 Tourism Development Project at Caracol. Analysis of bones from 2003 excavations, including worked bone.
- 2007 Belize Valley Archaeological Project. Identification of early Maya vertebrate fauna from the Blackman Eddy site.
- 2006 Analysis of Formative period Soconusco population movement (bone chemist) Strontium, carbon, and oxygen isotope analysis of human remains from Canton Corralito and Paso de la Amada

FIELD PROJECTS

- 2016-present Mopan Valley Archaeological Project, faunal analyst and osteologist at Xunantunich, San Lorenzo, and Buenavista, Belize. Project Directors: M. Kathryn Brown and Jason Yaeger
- 2016-present Proyecto Arqueológico Ucanal Zooarchaeology and field bioarchaeology in 2017 Director: Christina Halperin, Co-director José Garrido López, Bioarchaeologist Katie Miller
- 2014-present Holly Springs Craft House and Chalmer's Institute excavations. Recovery of early 19th century materials of Chalmers Institute and reconstruction of foodways of kitchen/slave quarters of the Craft House residence. Co-director Jodi Skipper
- 2011-present Actuncan Archaeological Project, Belize. Osteological analysis and excavation of human remains and burial contexts. Project Director: Lisa LeCount

2010-present Proyecto Arqueológico Tayasal, Guatemala (faunal analyst) Analysis of Preclassic–Colonial faunal assemblage from Petén Lakes sites. Project Director: Dr. Timothy Pugh

2013 Belize Cave Research Project (osteologist) Mapped and identified Classic-period Maya human remains in Offering Cave, Belize. Project Director: Dr. Holley Moyes

2007-2008 Belize Summer Field Program in Maya Archaeology Field director and faunal analyst for UW-Madison field school June 2007 and June 2008.

2003-2005 Fårevejle and Dragsholm, Denmark Project Excavation of coastal Mesolithic shell midden, and preliminary faunal identification and quantification. Director: Dr. T. Douglas Price

2004-2005 Xunantunich Archaeological Project. Analysis of faunal material from the Classic Maya capital and the hinterland sites. Project Director: Dr. Jason Yaeger

2003 Xunantunich Palace Excavations, Xunantunich, Belize Project. Excavation of termination deposits in royal residence. Director: Dr. Jason Yaeger

2001 Miercurea Project, Transylvania, Romania Project/Field School. Excavation of Neolithic settlement and Iron Age tumulus in field school. Director: Andre Gonciar

2000 Ometepe Archaeological Project, Nicaragua Survey and mapping of petroglyphs on island of Ometepe. Project Directors: Suzanne Baker, James Martin, and Michael Smith

2000 Cerro San Juan Diaz Field School. Director: Benoit Desjardins, Smithsonian Tropical Institute

SERVICE

2/9/17-2/10/17 Hosted Mississippi Maya Week with speakers K. Miller Wolf and Marc Wolf (East Indiana University) and Alexandre Tokovinine (University of Alabama)

2/18/16 Hosted guest speaker Joseph McGill, guest speaker for UM Slavery and the University working group also included meetings with history, anthropology, NAACP, and other students

2016 Fellowship committee member for Graduate Women in Science Fellowship applications and grant reviewer

2016 University of Mississippi ORSP Investment Grant Round 2 research grant reviewer (multiple grants)

11/11/15 *Meet Homo naledi*, organized campus visit and presentations by two visiting speakers on the newest find in human evolution (Zach Throckmorton, LUM, Juliet Brophy, LSU)

2009-2010 Scholarship administration and seminar competition for Graduate Women in Science, UW-Madison Beta Chapter

2009-2010 Education programs for middle school students UW-Madison Darwin Days and (archaeology instructor) Expand Your Horizons and UNO Charter School Network program

2005-2008 UW-Madison Zoological Museum Volunteer Skeletal specimen preparation, tours, and collections maintenance (including managing the Dermestid beetle colony)

2004-2005 Geology Museum, University of Wisconsin – Madison. Volunteer in the Geology museum cleaning and reconstructing fossils and assisting in the preparation of museum exhibits

2002-2003 Anthropology Brown Bag Lecture Series. Organized lectures during academic year for weekly archaeology lecture series.

STUDENT ADVISING

Ph.D. committee member

University of Texas at San Antonio

Whitney Lytle (expected 2017) A Diachronic Look at Activities within the Ancestor Shrine of Group D, Xunantunich

University of Mississippi

Caroline Spencer (Chemistry, expected 2016)

Washington University

Diana Fridberg (Anthropology, 4/21/15) *Classic Maya Human-Animal Relations at El Perú-Waka' and La Corona, Northwest Petén, Guatemala*

Master's Degree advisor

University of Mississippi

Morgan Isaacs (2016) *Dating techniques at Caves Branch, Belize*

Nicholas Billstrand (2016) *Linearly stressed to death: Consideration of early childhood stress as a main contributor to the regional variability in Classic Maya mortuary profiles*

Stephanie Orsini (2016) *Paleoindian to Postclassic zooarchaeological analysis of Bladen, Belize faunal assemblage*

Whitney Broughton (2014) *Childhood growth in an Oneota community: Examining long bone growth differences in the juveniles at Norris Farms 36*

Hanna Stewart (2014) *From the mouths of Mississippians: Determining biological affinity between the Oliver Site (22-Co-503) and the Hollywood Site (22-Tu-500)*

Spencer Oliver (expected 2017) *Biogeochemistry applications in forensic cases: Using strontium and oxygen isotopes analysis to identify origin in modern populations*

Master's Degree committee member

University of Mississippi

Paul Martin (2015) *Evaluation of geophysical methods in the detection of toddler sized burials within the first six months of burial*

John Bowler (expected 2017) *A Study of Water Management and Erosional Control at the Site of Cahal Pech, Belize through the Investigations of a Maya Check Dam*

Trent University

Arianne Boileau (2014) *Maya exploitation of animal resources during the Middle Preclassic: An archeozoological analysis from Pacbitun, Belize*

University of Texas at Arlington

Destiny Micklin (May 2015) *Using isotope analysis to understand the interaction between migration and burial at the eastern structure of Group 1 at Actuncan, a Maya archaeological site in Belize*

Undergraduate Forensic Chemistry senior project advisor

University of Mississippi

Rebecca Pfeiffer and Carolyn Freiwald (2016) *Determination of canine mobility through isotopic composition of enamel*

Acacia Leavitt, Carolyn Freiwald, Paul Fullagar, Drew Coleman, and David Dettman (2016) *Identifying migration using elemental and isotopic variables from El Perú-Waka' and La Corona, Guatemala, with Dr. James Cizdziel*

Shelby Hilton, Carolyn Freiwald, Beau Black, and James Cizdziel (2016) *Finding patterns of migration from elemental analysis of tooth enamel, with Dr. James Cizdziel*

Jasmine Cross, Carolyn Freiwald, Kirsten Green, Oscar Black and James Cizdziel (2016) *Isotopic and elemental analysis of tooth enamel at the Maya site Cahal Pech, Belize*

Lindsay Brown and Kendall Wontor et al. (2015) *Developing a method of RNA extraction in teeth for the purpose of sex determination, with Dr. Murrell Godfrey*

Heidi Witteveen (2014) *Modern and ancient DNA techniques: extracting DNA from Actuncan, Belize tooth dentin, with Dr. Murrell Godfrey*

Melissa Quartarone (2014) *The potential uses for trace element analysis of tooth enamel in past populations*

Jessica Haig (expected 2017)

Undergraduate honors thesis committee member

University of Mississippi

Alexandra Gochenauer (2016) *An analysis of the Jaketown (22HU505) collection at the University of Mississippi*

NON-ACADEMIC PROFESSIONAL EXPERIENCE

1998-2011 Deloitte Consulting/Probys Solutions Managed software testing team, conducted new-hire interviews and designed a national training program used in Indiana, Wisconsin, Pennsylvania and Texas.

2002 Hudson Institute Constructed focus groups for Hudson's evaluation of Arkansas' Federal and State welfare program systems

1995-1997 State of Wisconsin Led program implementation for Wisconsin public assistance system changes for its pilot program in two counties

1990-1995 Dane County Human Services Administered public assistance programs to low-income families and provided staff training during the conversion to a new computer system.

1993-1994 Finca San Cayetano, Retahuleu, Guatemala Raised funds for a daycare and organized micro-business projects in Guatemala, including a tailoring business, pig rearing, and a neighborhood store

PROFESSIONAL MEMBERSHIPS

Society for American Archaeology (SAA), American Association of Physical Anthropology (AAPA), International Council for Archaeozoology (ICAZ), Archaeological Institute of America (AIA), Graduate Women in Science (GWIS-Beta Chapter), American Association of University Women (AAUW)