# Carolyn Freiwald, Ph.D.

Curriculum Vitae September 2019

Assistant Professor of Anthropology Department of Sociology and Anthropology University of Mississippi 544 Lamar, P.O. Box 1848 University, MS 38677-1848 crfreiwa@olemiss.edu 608-770-1408

#### **RESEARCH INTERESTS**

Maya and Mesoamerican archaeology, bioarchaeology, mortuary practices, zooarchaeology, archaeological chemistry, migration, diet

#### **EDUCATION**

- 2011 PhD, University of Wisconsin-Madison Department of Anthropology Maya Migration Networks: Reconstructing Population Movement in the Belize River Valley during the Late and Terminal Classic
- 2004 MS, University of Wisconsin-Madison Department of Anthropology Specializing in Mesoamerican and Northern European Mesolithic archaeology
- 1989 BA, University of Wisconsin-Madison International Relations and History (emphasis on economics) graduated with distinction)

# **ACADEMIC POSITIONS**

2019-present	University of Mississippi, Associate professor in biological anthropology
2013-2019	University of Mississippi, Assistant professor in biological anthropology
2012-2013	University of Mississippi, Visiting assistant professor in biological anthropology
2012-present	University of Wisconsin-Madison, Department of Anthropology Honorary fellow
2010	University of Wisconsin Richland Center, Anthropology adjunct faculty
June 2012	University of Texas at San Antonio, Archaeology field school staff
2009-2012	University of Wisconsin-Madison, Zoology 699 Instructor
2009-2010	University of Wisconsin–Madison, Spanish 101 Instructor
2009-2010	University of Wisconsin-Madison, Department of Anthropology teaching assistant trainer
2008	University of Wisconsin-Madison, Department of Spanish and Portuguese
	Spanish language instructor
2003-2006	University of Wisconsin-Madison, Department of Anthropology Teaching assistant

# **PUBLICATIONS**

# Peer-reviewed books and journals

1 001 1011011	ca books and journals
2019	Price, TD, V Tiesler, and C Freiwald. Origins of the sacrificial victims in the
	Sacred Cenote, Chichén Itzá, Mexico. American Journal of Physical
	Anthropology. doi.org/10.1002/ajpa.23879
2019	Freiwald, C, A Novotny, K Green Mink. Mobility among the Maya of the Belize
	Valley. Research Reports in Belize Archaeology 16:91-100.

- 2019 Lytle, W, Brown, MK, R, Horowitz, C Freiwald. Late Classic burials and eccentric caches from Structure D-6 at Xunantunich. *Research Reports in Belize Archaeoology* 16:123-132.
- Freiwald, C, K Miller Wolf (guest editors) Considering conservation of human skeletal remains in archaeological contexts. In Curating the Past: The Practice and Ethics of Skeletal Conservation Special Issue of *Advances in Archaeological Practices* & (1):3-9. doi:10.1017/aap.2018.48.
- Freiwald, C. Excavation and curation strategies for complex burials in tropical environments. In Curating the Past: The Practice and Ethics of Skeletal Conservation Special Issue of *Advances in Archaeological Practices* 7(1):10-22. doi:10.1017/aap.2018.43.
- Powless, P, C Freiwald. The challenges of dealing with multiple sets of human remains in the cultural resource management setting where tribal resources are limited. In Curating the Past: The Practice and Ethics of Skeletal Conservation Special Issue of *Advances in Archaeological Practices* 7(1):55-59. doi:10.1017/aap.2018.44
- 2018 Miller Wolf, K, C Freiwald. Re-interpreting ancient Maya mobility: A strontium isotope baseline for western Honduras. *Journal of Archaeological Science: Reports* 20:799-807.
- 2018 Rice, P, A Boileau, L Cecil, S deFrance, C Freiwald, N Meissner, T Pugh, D Rice, M Yacubic. Zacpetén Structure 719: Activities at a Contact Period *Popol Nah* before rapid abandonment. *Ancient Mesoamerica* 29:137-155.
- Freiwald, C, 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. *Environmental Archaeology: The Journal* of Human Paleoecology 23(1):278-284.
- Awe, J, CE Ebert, C Freiwald, K Green. The dead do tell tales: Unraveling the case of Cahal Pech's Jane or John Doe. *Research Reports in Belizean Archaeology* 14:213-225.
- Wrobel, GD, C Freiwald, S Gibbs, A Michaels, 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.
- Pugh, TP, K Miller, C Freiwald, PM Rice. Technologies of domination at Mission San Bernabé, Petén, Guatemala. *Ancient Mesoamerica* 27(1):49-70.
- Patterson, E, C Freiwald. Migraciones regionales en las Tierras Bajas Centrales: Nuevos valores de isótopos de estroncio en La Corona y El Perú-Waka'. In *XXVI Simposio de investigaciones arqueológicas en Guatemala*, edited by B Arroyo, L Méndez Salinas, and G Ajú Álvarez, pp. 797-807. Instituto de Antropología e Historia Asociación Tikal, Guatemala City.
- Wrobel, G, C Helmke, C Freiwald, J Awe. 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 GD Wrobel, pp. 77-106. Springer Press.
- 2014 Freiwald, C, J Yaeger, J Awe, 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 GD Wrobel,

pp.107-141. Springer Press.

Freiwald, C, DW Mixter, N Billstrand. Burial practices at Actuncan, Belize: A seated burial and ongoing analysis from the 2001-2013 field seasons.

Research Reports in Belize Archaeology 11:95-110.

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.

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 JE Staller and M Carrasco, pp. 399-420. Springer Verlag, New York.

Yaeger, J, C Freiwald. Complex Ecologies: Human and Animal Responses to Ancient Landscape Change in Central Belize. *Research Reports in Belizean Archaeology* 8:83-92.

### **Publications in progress**

In press Yaeger, J, C Helmke, MK Brown, M Zender, B Cap, C Freiwald. A shell gorget from Feature 384-2 at Buenavista del Cayo, Belize. *Mexicon*.

In press Freiwald, C. Barton Ramie and in-migration to the Belize River Valley: Strontium isotopes and burial patterns. In *Mobility and Migration in Ancient Mesoamerican Cities*. edited by MC Arnauld, C Beekman, and G Pereira. University Press, Colorado.

In press Hoggarth, J, C Freiwald, J Awe. Evidence for Classic and Postclassic population movement at Baking Pot, Belize. In *Mobility and Migration in Ancient Mesoamerican Cities*. edited by MC Arnauld, C Beekman, and G Pereira. University Press, Colorado.

In press Freiwald, C, B Woodfill, R Mills. An isotopic investigation of salt and its implications for exchange and mobility in Mesoamerica. *Journal of Archaeological Science: Reports*.

Accepted Price, TD, V Tiesler, P Zabala, A Coppa, C Freiwald, H Schroeder, A Cucina. Home is the Sailor. Investigating the Origins of the Inhabitants of La Isabela, the First European settlement in the New World. *Current Anthropology*.

Accepted Migration and mobility among the ancient Maya. In *The Maya* World, edited by S Hutson and T Ardren. Routledge Press. Book in review.

Accepted Brown, MK, C Freiwald. Potluck: Building community and feasting amongst the Middle Preclassic Maya. In *From Feast to Famine*, edited by Traci Ardren. University of Texas Press. Book in review.

In revision Freiwald, C. The Biogeochemistry of childhood diet and migration among the Maya. In *Exploring Human Behavior through Isotope Analysis: Applications in Archaeological Research*, edited by A Somerville and M Beasley. Springer Press.

In review Hoggarth, JA, C Freiwald, CE Ebert, C Helmke, JJ Awe, K Green, P Powless, and AH McKeown. As the Baktun Turned: Reconstructing Classic to Postclassic population dynamics in the Belize River Valley. In *Identity, Power, and Politics:* 3,000 Years of War and Peace in the Maya Lowlands, edited by GE Braswell and VV Aquino. Routledge Archaeology of the Ancient Americas Series.

In review Hughes, C, J Lindo, T Pugh, C Marshall, R Malhi, KA Miller Wolf, C Freiwald. Assessing ancestry at San Bernabé: Insights from an ancient DNA feasibility study. In *Colonialism at Tayasal, Petén, Guatemala*, edited by T Pugh. University of Colorado Press.

In review Freiwald, C. Changes and continuity in animal use in early Colonial households at San Bernabé, Tayasal, Guatemala. In *Colonialism at Tayasal, Petén, Guatemala*, edited by T Pugh. University of Colorado Press.

In prep Dassow, A, C Freiwald. A day in the life of a Memphis Zoo gorilla.

In prep Freiwald, C, K Miller Wolf, T Pugh, P Rice, R Mills, D Dettman. Reconstructing resettlement at Mission San Bernabé. To be submitted to *PLoS ONE*.

In prep Hoggarth, J, CE Ebert, BJ Culleton, JJ Awe, SFM Breitenbach, C Freiwald, C Helmke, J Walden, RA Guerra, K Green, A McKeown, DJ Kennett. Dynamics of the Maya Collapse in the Belize Valley. To be submitted to *Nature*.

In prep Patterson, E, C Freiwald. Regional Population Movement in the Central Lowlands: Isotopes and Elements at La Corona y El Perú-Waka'. To be submitted to *International Journal of Osteoarchaeology*.

In prep Special edition of *Ancient Mesoamerica* from 2019 SAA session on ancient borders in the Maya region. Introduction and isotopic migration article planned.

# Other publications

Cuici public	
2014, 2018	Meiggs, DC, C Freiwald. Bioarchaeological approaches to human
	migration. In Encyclopedia of Global Archaeology, edited by A Simon and C
	Wells, pp. 3583-3545. Springer-Verlag.
2010	Freiwald, C. Archaeological chemistry. <i>Imagine</i> 18(2):18-19. Johns Hopkins
	University Center for Talented Youth.
2007	Freiwald, C. Trachte Photo Gallery. Madison trust for Historic Preservation web
	publication http://www.madisonpreservation.org/galleries.
2004	Clados, C (C Freiwald (Ed.)) Reconstructing the Pre-Columbian World.
2004	Freiwald, C. Downtown Madison Loses One Building after Another. Isthmus
	3/5/04.

# **Book essay reviews**

C. Freiwald. 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.

### **Student publications**

Craze, A, M Brandon. Scanning electron microscopy and elemental analysis of clay from the Copperbelt Province of Zambia. *University of Mississippi Undergraduate Research Journal*.

#### **Technical Reports**

June 2019 Chac II, Becan, Oxkintok, Palenque, Chichen Itza, and Caucel. Tiesler et al. report to submit to the National Institute of Anthropology and History. Merida, Mexico.

- June 2019 Xunantunich, San Lorenzo, Buenavista, and Arenal osteology MVPP and MVAP 2018 field report. PIs J Yaeger and K Brown.
- August 2018 Ucanal faunal report 2018. PI C Halperin.
- August 2018 Contributor (faunal analysis) to *The Caste War, the San Pedro Maya, and British Honduras* (provisional title). MC Church, JR Yaeger, CA Kray, and RM Leventhal. Colorado University Press.
- July 2018 Freiwald, C et al. Reconstructing life histories using DNA and bone chemistry. In *New Salem Cemetery Project*. Center for Archaeological Research (edited by T Boudreaux).
- May 2018 Freiwald, C. *Mobility and diet in the Belize River Valley: A resource guide*. Report submitted to the Belize Valley Archaeological Reconnaissance Project, edited by C Ebert and J Hoggarth.
- May 2018 Freiwald, C. *New interpretations on mobility and diet at Xunantunich and San Lorenzo*. Report submitted to the Mopan Valley Preclassic Project.
- May 2018 Freiwald, C. The status of marine shell and other fauna at Actuncan. In *Actuncan Archaeological Project: The 2017 Field Season*, edited by D Mixter. Report submitted to the Belize Institute of Archaeology, May 2018.
- March 2018 *Mobility and diet at Chicoloapan Viejo: A preliminary study.* Report submitted to S Clayton, UW-Madison, for the National Science Foundation/INAH.
- Feb. 2018 Freiwald, C, C Dubois-Francoeur, RA Bigué. Análisis preliminar de la fauna de Ucanal (Temporada 2016 2017). In *Proyecto Arqueológico Ucanal:3ra Temporada del Campo Año 2017*, edited by Christina Halperin and José Garrido López. Report submitted to the Dirección General de Patrimonio Cultural y Natural, Guatemala City, Guatemala.
- Oct. 2017 Freiwald, C, K Miller, 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.
- May 2016 Landau, K. with contribution by C Freiwald. 2016. *Maintaining the State:*Centralized Power and Ancient Neighborhoods in Copán, Honduras. PhD dissertation, Department of Anthropology, Northwestern University.
- Feb. 2016 Patterson, E, 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.
- Jan. 2016 Freiwald, C. *La fauna de Nixtun Ch'ich'*. Report submitted to the Instituto de Antropología e Historia (IDEAH), Guatemala City, Guatemala.
- Dec. 2015 Patterson, E, 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.
- Freiwald, C, with contributions by GT Austin and N Billstrand. Life and death at Actuncan: An examination of burial treatment and taphonomy. In *Actuncan: Report of the 2014 Field Season*, edited by LJ 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 LJ LeCount. Report on file at the Belize Institute of

Archaeology, Belmopan. 2014 Freiwald, C, N Billstrand. Burial 11 in Structure 41 at Actuncan, Belize. In Actuncan: Report of the 2013 Field Season, edited by LJ LeCount. Report on file at the Belize Institute of Archaeology, Belmopan. 2013 Freiwald, C. Los recursos lacustres y fluviales de Tayasal y la misión San Bernabé. In Proyecto Arqueologico Tayasal: Informe presentado al Instituto de Antropología e Historia de la cuarta temporada de investigaciones 2012, edited by T Pugh. Report on file at the Instituto de Antropología e Historia (IDEAH), Guatemala City, Guatemala. Mixter, D, C Freiwald. Excavations at Group 8. In Actuncan: Report of the 2013 2012 Field Season, edited by LJ LeCount. Report on file at the Belize Institute of Archaeology, Belmopan. Freiwald, C, D Micklin. Burial Practices at Group 1. In Actuncan: Report 2013 of the 2012 Field Season, edited by LJ LeCount. Report on file at the Belize Institute of Archaeology. 2013 Freiwald, C. Recording and Excavation Techniques for Comingled Burials. In Actuncan: Report of the 2012 Field Season, edited by LJ LeCount. Report on file at the Belize Institute of Archaeology. 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. Ph.D. dissertation by M Peuramaki-Brown, Department of Anthropology, University of Calgary. Oct. 2012 Freiwald, C. Osteological and contextual analysis of Callar Creek human remains from Structure 14. Report submitted to S. Kurnick for dissertation research. Jan. 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. Dec. 2011 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 L LeCount and A Keller. Report submitted to the Belize Institute of Archaeology, Belmopan, Belize. Sept. 2011 Freiwald, C. Cambios y estabilidad en el uso de animales en Tayasal: Resultados iníciales. In *Proyecto Arqueológico Tayasal: informe preliminar* presentado al Instituto de Antropología e Historia de Guatemala, edited by Timothy Pugh. Report submitted to the Guatemala Institute of Anthropology and History, Guatemala City. 2008 Freiwald, C. City of Madison Landmark Nomination: Schubert Building (1908). http://legistar.cityofmadison.com/attachments/23fdd85c-6928-4c22-985a-8303f2b7cb2a.pdf.

Freiwald, C. City of Madison Landmark Nomination: Suhr Building (1885-1887).

2005

 $http://www.cityofmadison.com/planning/landmark/nominations/166\_125StateStre~et.pdf.$ 

# FELLOWSHIPS AND AWARDS

2019	University f Mississippi College of Liberal Arts Dr. Mike L. Edmonds New
2017	Scholar Award (\$1,000)
2019	SMBHC summer stipend, <i>Human Mobility</i> course (\$5,000)
2019	Excellence in Community Engagement Award Recipient (\$5,000), PI J Skipper
2016-2018	SSHRC Insight Grant (\$96,632) Cosmopolitanism in the wake of Classic Maya
2010 2010	political collapse: Ucanal, Petén, Guatemala Principal Investigator C Halperin,
	Senior Personnel C Freiwald et al. (zooarchaeology).
2018	University of Mississippi travel grant (\$700).
2017	University of Mississippi Summer Research Grant (\$7,860)
	DNA of paleopathogens to identify diseases among the ancient Maya.
2015	Hurricane Creek, MS faunal analysis (\$2,491) Co-PI Jay Johnson
	Zooarchaeological analysis of Mississippian-era mound site remains.
2015	University of Mississippi ORSP Investment Grant (\$4,239)
	Archaeological chemistry: Identifying migration and trade in Mesoamerica.
2015	University of Mississippi Summer Research Grants (\$9,412)
	Research grant awarded for ongoing work at the Tayasal Archaeological Project
	in northern Guatemala to work on analyses of marine remains.
2014	Graduate Women in Science Nell Mondy Fellowship (\$8,525)
	Migration, diet, and dynasty at the sites of La Corona and El Perú -Waka',
2014	Guatemala.
2014	OSRP Faculty Travel Support Grant (\$1,500)
2014	International Council of Archaeozoology Conference, San Rafael, Argentina.
2014	University of Mississippi Summer Research Grants (\$9,412)
	Research grant awarded for ongoing work at the Tayasal Archaeological Project in northern Guatemala to identify changing catchments and culinary patterns
	before, during, and after the arrival of the Spanish in the region.
2013-2014	Southeastern Conference Faculty Travel Grant (\$1000)
2013-2014	Award granted to visit the University of Florida Department of Anthropology
	to plan zooarchaeology research, give a bioarchaeology presentation, and set up
	future collaborative efforts with UF faculty and staff at the Florida Museum of
	Natural History.
2010-2012	National Science Foundation Grant # BCS 0917918 Senior Personnel
2010 2012	Principal Investigator T Pugh Pathways of power and the Colonial process in the
	Petén, Guatemala.
2009-2010	UW-Madison College of Letters and Sciences Teaching Fellow
	Received teaching award that included opportunity to provide campus-wide
	training to UW-Madison teaching assistants.
2009-2010	SDE/GWIS Eloise Gerry Fellowship 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 in January 2009 and to University
	of Illinois at Champaign – Urbana February 2010.

2008-2009 Ruth Dickie Scholarship (SDE-GWIS) UW-Madison Graduate Women in Science research scholarship. 2007 Miller Prize in Anthropology, UW-Madison Recognition of innovation in teaching anthropology. UW-Madison Anthropology Department Travel Grant 2006-2009 Annual grant awarded for research in Chiapas, Mexico, and at the Peabody Museum at Harvard, and to present research at conferences in Mexico, Canada, and the US. Nave Summer Research Grant 2005 Study of geologic regions and archaeological sites in Chiapas, Mexico as part of predissertation research on human mobility. 2003-2005 Foreign Language and Area Studies fellowships (FLAS) Two one-year FLAS fellowships to study the Spanish and Yucatec Maya languages. **Grant applications pending** 9/19-9/24 National Science Foundation - Dynamics of coupled human and natural systems grant (~\$60,000, my allocation of ~\$1.7 million). Megafauna to Maya: Exploring long-term nature-human interactions in the tropics of Lowland Central America. PI L Lucero, co-PIs J Conroy, R Malhi, B Muckley. Senior Personnel C Freiwald,

National Science Foundation - Archaeology of Indigenous Maya Entanglement with Spanish Colonialism at Tahcabo, Yucatán (~\$6,000). PI Patricia McAnany.

# **Graduate student grants received**

2019	Graduate Student Research Grant (\$1,000) Rachel Smith
2019	Graduate Student Research Grant (\$1,000) Jacob Harris
2019	Summer Graduate Research Assistantship (\$2,500) Jacob Harris
2016	Summer Graduate Research Assistantship (\$2,500) Stephanie Orsini
2015	Graduate Student Research Grant (\$1,000) Spencer Oliver
2014	Graduate Student Research Grant (\$1,000) Nicholas Billstrand

HG McDonald, L Kosakowsky.

# RESEARCH

9/19-9/24

RESEARCH	
2019	Isotope geochemistry at Naachtun, Guatemala. Director: H Goudiaby, Universität
	Konstanz, Gregory Pereira, French National Centre for Scientific Research
2018	Isotope geochemistry St. Goerge's Caye, Belize. Director: J Garber
2011, 2019	Siete Templos Project, Tikal (faunal analyst)
2016-2018	New Salem Cemetery Relocation. Biogeochemical analysis of historic cemetery
	in Clinton, MS. Director: Dr. T Boudreaux
2014-2016	Development and resilience of complex socioeconomic systems: A theoretical
	model and case study from the Maya lowlands. Director: Dr. K Prufer
2012	UW-Madison Zoological Museum Archaeological Collections Project
2012	Chiapa de Corzo archaeological project, Mexico
2009-2011	NAGPRA consultation and documentation grant (research assistant/osteologist)
2008-2013	UW-Madison Zoological Museum Galápagos pathology project with EE Pillaert
2007-2008	Tourism Development Project at Caracol (faunal analyst) Director: Dr. J Awe

2007	Belize Valley Archaeological Project (faunal analyst) Blackman Eddy
2006	Dr. M K Brown and Director Dr. J Garber Analysis of Formative period Soconusco population movement (bone chemist)
FIELD PRO	JECTS  Mopan Valley Archaeological Project and Mopan Valley Preclassic Project,
2010-present	Belize (Drs. J Yaeger and MK Brown) Human osteology and zooarchaeology
2015-present	
-	Proyecto Arqueológico Itza (Dr. T Pugh) Postclassic Period zooarchaeology
2014-present	Holly Springs Craft House and Chalmer's Institute excavations (with co-director J Skipper)
2011-present	
2007-2008	Belize Summer Field Program in Maya Archaeology (Field Director) Director: Dr. J Yaeger
2003-2005	Fårevejle and Dragsholm, Denmark Director: Dr. TD Price
2003	Xunantunich Palace Excavations, Xunantunich, Belize. Director: Dr. J Yaeger
2001	Miercurea Project, Transylvania, Romania field school Director: A Gonciar
2000	Ometepe Archaeological Project, Nicaragua survey and petroglyph
	Directors: S Baker, J Martin, and M Smith
INVITED PI	RESENTATIONS
2016	Graduate Women in Science National Conference (June 25, 2016). Senior thesis
	student poster displayed at conference (A Leavitt, C Freiwald, E Patterson, P
	Fullagar, D Dettman, TD Price)
2016	UM/UMMC Research Day (March 6, Jackson, MS) 3-minute research presentation
2015	Maya week at The University of Southern Mississippi (Oct. 1, Hattiesburg, MS) Migration, culture change, and the arrival of the Spanish in the last independent
	Maya Kingdom
2015	UM-Mississippi State 2 <sup>nd</sup> annual Anthropology Lecture Series (March 2015,
	Starkville, MS) Maya burials and beliefs: Funerary treatment in a Classic Maya
	household
2015	Archaeological Institute of America Annual Meeting (January 2015, New
2012 2016	Orleans) Mapping Maya migration networks during the Classic Period
2013-2016	University of Wisconsin – Madison (February 2013, March 2014-2016, UW-Madison Medical School) <i>The people and history of Belize</i>
2014	Tulane Maya Symposium and Workshop, Middle American Research Institute
2014	(February 2014) On the Maya trail: Ancient traveler's, epic voyages.
	Mapping Maya Migration Networks during the Classic Period
2013	
	Fall 2013 Anthropology Program DCS Sponsored Archaeology Talk (Oct.
	2013, CUNY Graduate Center, New York). Burial customs of the Classic
2013	2013, CUNY Graduate Center, New York). Burial customs of the Classic Maya: A 1300-yr- old burial ground at Actuncan, Belize
2013	2013, CUNY Graduate Center, New York). Burial customs of the Classic Maya: A 1300-yr- old burial ground at Actuncan, Belize University of Mississippi Department of Sociology and Anthropology Fall
2013	2013, CUNY Graduate Center, New York). Burial customs of the Classic Maya: A 1300-yr- old burial ground at Actuncan, Belize University of Mississippi Department of Sociology and Anthropology Fall Lecture Series (October 2013, University, MS) Burial customs of the Classic
2013 2013	2013, CUNY Graduate Center, New York). Burial customs of the Classic Maya: A 1300-yr- old burial ground at Actuncan, Belize University of Mississippi Department of Sociology and Anthropology Fall

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 arqueologico 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** Maya Symposium, Okayama University, Japan (December 10-16, 2019) 2019 2019 Early Urbanism, Land Use, and Community Life: Archaeological and Paleoenvironmental Research at Chicoloapan symposium (May 5-12, Paris, France). Epiclassic diet and origin at Chicologaan Viejo. Freiwald, C, S Weeden 2019 Society for American Archaeology, Albuquerque, NM. Freiwald, C Crossing Borders (session co-organizer) What Isotope Geochemistry Reveals about the Ancient Maya; Dani-Flynn, Y, K Miller Wolf, C Halperin, C Freiwald *Isotopic* Analysis and Social Identities from Classic Period (ca. 300900 CE) Burials at the Maya Site of Ucanal, Petén, Guatemala; Lytle, W, R Horowitz, C Freiwald and MK Brown Ritual Deposits within the Eastern Pyramidal Structure at Group D, *Xunantunich – Belize; The Undiscussed Paperwork of Archaeology: Applications,* Waivers, and Contracts 2018 Bioarchaeology Symposium, Universidad autonima de Yucatan (Oct. 30-Nov. 4, 2018, Merida, Mexico) Freiwald C. Esmalte, huesos, e isotopos: estudios en la química arqueología 2018 Belize Archaeology Symposium (June 26-29, 2018, San Ignacio, Belize) Freiwald et al. *Mobility and Molecules among the Maya of the Belize Valley:* New Techniques, New Knowledge, and New Directions. 2018 Society for American Archaeology annual meeting (April 2018, Washington, DC) Alsgaard et al. Hunter Gatherer Archaeology, Freiwald et al. Palimpsest urbanism, Ebert et al. Using Stable Isotopes to Explore Ancient Farming and Herding Practices, Patterson, E, C Freiwald, La Corona Archaeological Project. 2017 South Central Maya Conference (October 2017, New Orleans, LA) The Biogeochemistry of San Bernabe (with K Miller Wolf). Society for American Archaeology annual meeting (March 2017, Vancouver, BC) 2017 Session organizer (with K Miller Wolf) Curating the Past: The Practice and Ethics of Skeletal Conservation. Paper presented (with L Halverson) A step-bystep Guide to Excavating Burials, or how a Bioarchaeologist can be in Two (or Three) Places at Once. 2016 Society for American Archaeology annual meeting (April 2016, Orlando, FL)

	Freiwald, C, T Pugh. Strontium Isotope Values for Early Colonial Cows at
	San Bernabe, 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, K Prufer. Changing Food Choices from Paleoindian to
	Classic Maya Periods: A Zooarchaeological Analysis
	Austin, TG, C Freiwald, H Niles, 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
2013	Salvador) <i>Identity and Migration in the Belize Valley during the Classic and</i>
	Postclassic Periods. J Hoggarth (presenter), C Freiwald, J Awe
2015	Simposio de Investigaciones Arqueológicas en Guatemala (July 2015, Guatemala
2013	City). Patterson, E, C Freiwald. <i>Migraciones regionales en las Tierras Bajas</i>
	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,
2013	CA). Freiwald, C, K Miller, T Pugh. <i>The Effect of Missionization on the Itza</i>
2015	Maya from Isotopic and Biodistance Evidence.  The Midwest Conference on Messagnerican Archaeology and Ethnohistory
2015	The Midwest Conference on Mesoamerican Archaeology and Ethnohistory  (Morch 2015 - Murfreschere TN) Purial Practices in the American Functions
	(March 2015, Murfreesboro, TN) Burial Practices in the Americas: Funerary
2014	Treatment and Taphonomy in a Classic Maya Household.
2014	12 <sup>th</sup> International Council on Archaeozoology (Sept. 2014, San Rafael, Argentina)
2014	Freiwald, C, MK Brown. Preclassic Animal Use at Blackman Eddy, Belize.
2014	Society for American Archaeology annual meeting (April 2014, Austin, TX)
	Using Multivariate and Quantitative Methods for Understanding Diachronic
	Change: Classic to Postclassic Household and Community Dynamics at Baking
	Pot, Belize (Hoggarth, J, C Freiwald, A Novotny, J Awe); Mobility and Migration
	over Mesoamerica in Classic and Postclassic Times (Freiwald, C, K Miller, TD
	Price, J Burton, P Fullagar, C Wells); Recent Work at Nixtun Ch'ich' and Tayasal,
2012	Peten, Guatemala (Shiratori, Y, C Freiwald, T Pugh)
2013	American Anthropological Association annual meeting (Nov. 2013, Chicago) The
	Meaning of Maya Migration: Bone Chemistry and Burial Treatment in the
2012	Eastern Lowlands.
2013	Belize Archaeology and Anthropology Symposium (July 2013, San Ignacio,
	Belize) An Actuncan Burial Ground: A Biocultural Analysis of Funerary
2012	Treatment and Taphonomy.
2013	Society for American Archaeology annual meeting (April 2013, Honolulu, HI)
	Urban and Rural Population Movement Patterns during the Late and
2012	Terminal Classic in the Belize River Valley.
2013	American Chemical Society national meeting (April 2013, New Orleans,
	LA) Miller, K, C Freiwald, Identifying Ancient Population Movement in
	Honduras using Strontium and Oxygen Isotopes: New Values and
2012	Interpretations.
2012	Society for American Archaeology annual meeting (April 2012, Memphis)
	Freiwald, C, S 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, J Piehl. Local Nobility, 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. 11<sup>th</sup> International Council for Zooarchaeology (August 2010, Paris) 2010 Freiwald, C, J Yaeger, TD Price, JH Burton. Late Classic Maya Resource *Management: A Case Study from the Belize River Valley.* 2010 International Council for Zooarchaeology poster presentation (August 2010, Paris) Zooarchaeology in Modern Settings: the Life and Death of the Galapagos Sea Lion (Z. wollebaeki). Co-author EE Pilleart. 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) Complex Ecologies: Human and Animal Response to Ancient Change in Central Belize. Co-author J. Yaeger 2008 Society for American Archaeology annual meeting (March 2008, Vancouver) Poster session: Classic Maya Migration Networks: Methods for Studying Population Movement in Belize. Co-author TD Price Chacmool Conference (Nov. 2007, University of Calgary) Mobile Maya 2007 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* Vallev. 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) Interpreting Missing Patterns: Maya Zooarchaeology from Xunantunich, Belize; and Identifying Environmental and Hunting Practices at San Lorenzo, Belize using Strontium, Carbon, and Oxygen Isotopes (with co-author J Yaeger). 2005 Midwest Mesoamerican Conference (March 2005, Bloomington, IN) An Interpretation of Faunal Remains at Group B, Xunantunich: A Preliminary

#### **CORE CURRICULUM**

Report.

ANTH 101 Introduction to Anthropology

ANTH 304 Introduction to Biological Anthropology

ANTH 405 Human Osteology

ANTH 320 Archaeozoology: Animal Use in History

ANTH 326 Archaeology of Maya Civilization

ANTH 311 Archaeological Science (in development)

ANTH --- The Anthropology of Human Migration

ANTH 342/542 Independent Study in Osteology/Bone Chemistry

ANTH 607 Introduction to Biocultural Anthropology

#### STUDENT ADVISING

Ph.D. Candidates

Memorial University, Newfoundland: Co-supervisor

Asta Rand (expected 2019) Modeling a Sulfur Baseline in Mesoamerica for Diet and Migration

Whitney Lytle (expected 2019) A Diachronic Approach to the Sociopolitical Role of Ancestor Veneration at Xunantunich, Group D

Washington University: committee member

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

Master's Degree Candidates

University of Mississippi Master's degree projects: advisor

Rachel Smith (expected 2020) Strontium Isotope Ratios in Human Teeth and Migration at Ambergris Caye, Belize

Jacob Harris (expected 2020) Zooarchaeological Analysis of Bone Tool Production at Ucanal, Guatemala

Caitlin Stewart (2019) Minimum Number of Individuals: A Methodological Comparison using Human Remains from Caves Branch Rockshelter in the Cayo District of Belize Stephanie Orsini (2016) Paleoindian to Postclassic Zooarchaeological Analysis of Bladen Belize Faunal Assemblage

Nicholas Billstrand (2016) Linearly Stressed to Death: Early Childhood Stress as a Contributor to Regional Variability in Late and Terminal Classic Maya Mortuary Profiles

Morgan Isaacs (2016) Dating Techniques at Caves Branch, Belize

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)

Whitney Broughton (2014) Childhood Growth in an Oneota Community: Examining Long Bone Growth Differences in the Juveniles at Norris Farms 36

University of Mississippi Master's degree projects: committee member

Paul Martin (August 2015) Evaluation of Geophysical Methods in the Detection of Toddler Sized Burials within the First Six Months of Burial

Trent University Master's degree: committee member

Arianne Boileau (2014) Maya Exploitation of Animal Resources during the Middle Preclassic: An Archeozoological Analysis from Pachitun, Belize

University of Texas at Arlington: committee member

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

Forensic Chemistry/Honors College thesis undergraduate project supervisor

Skyler McCoy (expected 2020) aDNA of the Ancient Maya Microbiome at Xunatunich and San Lorenzo, Belize

Sloan Weeden (expected 2020) Diet and Migration at Chicoloapan Viejo, Mexico Forensic Chemistry undergraduate project supervisor

Amelia Craze (expected 2020) project in development

Mina Brandon (expected 2020) Clay Consumption in the US South (in development)

Rebecca Pfeiffer (2017) Isotope Geochemistry of Maya Dogs

Acacia Leavitt (2016 with C Freiwald, E Patterson D Dettman, P Fullagar, TD Price)

Identifying Migration Using Elemental and Isotopic Variables from El Perú-Waka' and La Corona, Guatemala

Shelby Hilton (2016) Finding Patterns of Migration from Elemental Analysis of Tooth Enamel

Jasmine Cross (2016) Isotopic and Elemental Analysis of Tooth Enamel at the Maya site Cahal Pech, Belize

Forensic Chemistry undergraduate project participant

Lindsay Brown and Kendall Wontor (2016) 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

Honors Thesis committee member (anthropology)

Alexandra Gochenauer (2017) An Analysis of the Jaketown (22HU505) Collection at The University of Mississippi

PROFESSIONAL SERVICE AND DEVELOPMENT		
April 2019	Sheegog Plantation tour/history of slavery	
April 2018-19	Behind the Big House, Holly Springs, MS	
April 2018	Campus tour/history of slavery with Leigh McWhite and Andrew Marion	
April 2018-19	Slave Dwelling Project sleepover at Rowan Oak, with History, African American	
	Studies, and Anthropology department undergraduates and Joseph McGill	
Oct. 2017	Campus Twilight Tour, University of Mississippi library and historic architecture	
	tour (with UM Slavery Research Group L McWhite, J Jackson)	
Sept. 2017	Angela Dassow (Carthage College) Memphis Zoo research trip and campus event	
Feb. 2017	Maya Week with invited speakers Alex Tokovinine (University of Alabama) and	
	Katherine Miller Wolf and Marc Wolf (East Indiana University)	
Feb. 2016	UM Slavery Research Group Joseph McGill visit with faculty and history,	
	anthropology, NAACP, and other students	
Spring 2016	Reviews for Graduate Women in Science and UM ORSP IG Round 2 research	
	grants	
Nov. 2015	Drs. Zachary Throckmorton (LUM) and Juliet Brophy (LSU) Meet <i>Homo naledi</i>	
	campus event and classroom visits	
2009-2010	Graduate Women in Science, UW-Madison Beta Chapter Scholarship	

	administrator and seminar competition organizer
2005-2008	UW-Madison Zoological Museum, Zooarchaeology instructor and collections
	staff (including Dermestid beetle colony management)
2004-2005	Geology Museum, University of Wisconsin – Madison, volunteer
2002-2003	Anthropology Brown Bag lunch series lecture co-organizer

# NON-ACADEMIC PROFESSIONAL EXPERIENCE

1998-2011	Deloitte Consulting/Probys Solutions, Software testing manager
2002	Hudson Institute, consultant
1995-1997	State of Wisconsin, Public assistance program policy and software specialist
1990-1995	Dane County Human Services, Public assistance case worker
1993-1994	Finca San Cayetano, Retaluheu, Guatemala, independent microbusiness project

# PROFESSIONAL MEMBERSHIPS:

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