

# Matthew Timothy Kerr

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## Education:

University of Tennessee, PhD, Geography, 2019

Specialty Fields: Quaternary Environments, Prehistoric Human-Environment Interactions

Dissertation: [Holocene Precipitation Variability, Prehistoric Agriculture, and Natural and Human-Set Fires in Costa Rica](#)

Committee: Sally P. Horn (chair), David G. Anderson, Yingkui Li, Chad S. Lane

Oscar Roy Ashley Fellow, 2018 – 2019

Chancellor's Fellow, 2014 – 2017

University of Tennessee, MS, Geography, 2014

Concentrations: Stable Isotope Analysis, Human-Environment Interactions, Paleoclimate

Thesis: [Stable Isotope Analysis of Lake Sediments from Laguna Santa Elena and Laguna Azul, Costa Rica](#)

Committee: Sally P. Horn (chair), Henri D. Grissino-Mayer, Chad S. Lane

University of North Carolina Wilmington, BA, Anthropology with History Minor, 2012

*Summa cum laude*, with Honors in Anthropology

Thesis: [The Black Drink Project: Experimental Biomarker Development for a Southeastern Native American Tea](#)

Advisor: Eleanora A. Reber

Distinguished Undergraduate Research Scholar

## Professional Appointments:

*University of Tennessee*

Physical Geography Lecturer, fall 2019 to Present

Courses: GEOG 131 – [Weather, Climate, and Climate Change](#) (lead instructor)

GEOG 132 – [Landscapes and Environmental Change](#)

GEOG 331 – [Natural Hazards](#) (lead instructor)

GEOG 345 – [People and Environment](#)

GEOG 430 – [Global Environments of the Quaternary](#) (Undergrad/Grad)

GEOG 432 – [Environmental History from Tree Rings](#) (Undergrad/Grad)

GEOG 493 – Independent Study

GEOG 506 – Directed Readings

Graduate Research Assistant, fall 2017 to summer 2019

[National Science Foundation Award #1660185](#): Developing a Network of *n*-Alkane Hydrogen Isotope Records to Identify Drivers and Impacts of Holocene Droughts (awarded to S. Horn, C. Lane, and D. Gamble)

Instructor, University of Tennessee Kids U Summer Program, 2013–2018

Course: [Collapse: The Fall of Complex Civilizations](#)

Graduate Teaching Associate, spring 2015 and spring 2016  
Courses: GEOG 132 – Geography of the Natural Environment II  
GEOG 132 – Landscapes and Environmental Change

Physical Geography Laboratory Supervisor, fall 2016  
Course: GEOG 131 – Weather, Climate, and Climate Change

Graduate Teaching Assistant, 2013–2014, spring 2017 (Head GTA 2014)  
Courses: GEOG 131 – Geography of the Natural Environment I  
GEOG 132 – Geography of the Natural Environment II  
GEOG 415 – Quantitative Methods in Geography

Graduate Research Assistant, 2012  
Initiative for Quaternary Paleoclimate Research

*University of North Carolina Wilmington*

Research Assistant, 2011–2012  
Archaeological Residue Laboratory, Department of Anthropology

Paleoenvironmental Change Research Group, Department of Earth and Ocean Sciences  
Project: Compound-Specific Hydrogen Isotope Records of Paleoprecipitation  
Variability in the Dominican Republic

**Fieldwork Positions**

Archaeology Field Crew Chief  
Peace College 2011 Archaeological Field School, Brunswick Town-Fort Anderson State Historic Site, Winnabow, NC (directed by V. Melomo and T. Beaman, Jr.)

Archaeology Field Technician  
University of North Carolina, Greensboro 2010 Archaeological Field School, Old Salem Museums and Gardens, Winston-Salem, NC (directed by M. Hartley)

**Grants, Scholarships, and Fellowships (Total: \$59,582)**

2019 UT Graduate Student Senate Travel Award – \$900

2018 Oscar Roy Ashley Graduate Fellowship – \$4,000  
UT Graduate Student Senate Travel Award – \$850

2017 [National Science Foundation Award #1657170](#): Doctoral Dissertation Research: Holocene Precipitation Variability and its Relationship to Prehistoric Agriculture and Fires (awarded to S. Horn and M. Kerr) – \$15,819

Phi Kappa Phi Dissertation Fellowship – \$10,000  
UT Graduate Student Senate Travel Award – \$1,020

2016 AAG Biogeography Specialty Group – \$1,000  
Stewart K. McCroskey Memorial Fund SU16 – \$500  
UT Graduate Student Senate Travel Award – \$1,140

- 2015 Stewart K. McCroskey Memorial Fund FA15 – \$300  
 UT-SARIF Summer Graduate Research Assistantship (w/ S. Horn) – \$3,600  
 Stewart K. McCroskey Memorial Fund SU15 – \$300  
 UT Graduate Student Senate Travel Award – \$700
- 2014 UT Department of Geography Travel Fund – \$200  
 UT Graduate Student Senate Travel Award – \$950  
 UT Ready for the World Special Project Grant (w/ V. Tran, R. Bowling) – \$3,479
- 2013 UT Graduate School funds to support Geography Symposium (w/ M. Barron, et al.) – \$2,000  
 UT Arts and Sciences funds to support Geography Symposium (w/ M. Barron, et al.) – \$2,000  
 Gamma Theta Upsilon Visiting Geographical Scientist Program Grant (w/ W. Moseley) – \$524  
 UT Department of Geography Travel Fund – \$300  
 University of Tennessee Science Alliance Fellowship – \$1,000
- 2012 National Lambda Alpha Anthropology Honor Society Scholarship – \$5,000  
 Research Supplies Grant, UNC-Wilmington – \$500
- 2011 Chancellor’s Teal Award for Research Travel, UNC-Wilmington (two awards) – \$2,000  
 Honors Research Supplies Grant, UNC-Wilmington – \$500
- 2010 Honors Research Supplies Grant, UNC-Wilmington – \$500  
 Anthropology Department High GPA Scholarship, UNC-Wilmington – \$500

### Peer-Reviewed Publications

- Kerr MT, Horn SP, Lane CS. A 10,000-Year Record of Holocene Paleohydrology from Highland Costa Rica. In revision for resubmission to *Quaternary Research*.
- 2019 Kerr MT, Horn SP, Lane CS. [Stable Isotope Analysis of Vegetation History and Land Use Change at Laguna Santa Elena in Southern Pacific Costa Rica](#). *Vegetation History and Archaeobotany* 29(4): 477–492. DOI: doi.org/10.1007/s00334-019-00755-0
- 2019 Reber EA, Kerr MT, Whelton HL, Evershed RP. [Lipid Residues from Low-Fired Pottery](#). *Archaeometry* 61(1): 131–144. DOI: 10.1111/arc.12403
- 2018 Kerr MT, Horn SP, Grissino-Mayer HD, Stachowiak LA. [Annual Growth Zones in Stems of \*Hypericum irazuense\* \(Guttiferae\) in the Costa Rican Páramos](#). *Physical Geography* 39(1): 38–50. DOI: 10.1080/02723646.2017.1340714
- 2016 Lane CS, Horn SP, Taylor ZP, Kerr MT. [Correlation of Bulk Sedimentary and Compound-Specific  \$\delta^{13}\text{C}\$  Values Indicates Minimal Pre-Aging of \*n\*-Alkanes in a Small Tropical Watershed](#). *Quaternary Science Reviews* 145: 238–242. DOI: 10.1016/j.quascirev.2016.06.004
- 2014 Lane CS, Horn SP, Kerr MT. [Beyond the Mayan Lowlands: Impacts of the Terminal Classic Drought in the Caribbean Antilles](#). *Quaternary Science Reviews* 86: 89–98. DOI: 10.1016/j.quascirev.2013.12.017

- 2012 Reber EA, Kerr MT. [The Persistence of Caffeine in Experimentally Produced Black Drink Residues](#). *Journal of Archaeological Science* 39(7): 2312–2319. DOI: 10.1016/j.jas.2012.02.008

### Manuscripts in Preparation

Kerr MT, Bissett TG, Horn SP, Lane CS, Anderson DG. Stable Carbon ( $\delta^{13}\text{C}$ ) and Oxygen ( $\delta^{18}\text{O}$ ) Isotope Analysis of Two Freshwater Mussel Species from Archaeological Shell Middens in Middle Tennessee, USA. For submission to *Journal of Archaeological Science*.

Kerr MT, Reber EA, Horn SP. Experimental Development of a Non-Destructive Method for Archaeological Pottery Residue Extraction. For submission to *Journal of Archaeological Science*.

### Technical Reports

- 2019 Horn SP, Boehm MS, Kerr MT. “Report on Paleoclimate Proxies in Sediments from the Henson Branch Histosol Site, Tennessee.” Prepared for the Tennessee Valley Authority.
- 2017 Horn SP, Kerr MT. “[Hypericum irazuense Kuntze ex N. Robson in the Buenavista and Chirripó Páramos of Costa Rica: Photographs of Stem Cross Sections, Plants, and Study Sites](#).” The University of Tennessee, Knoxville, TN. DOI: 10.7290/V76D5QXX
- 2016 Kerr MT, Reber EA. “Absorbed Residue Analysis of 15 Pottery Sherds, 1 Soil Sample, and 1 Unknown from the Barracks West of Battery A at Brunswick Town/Fort Anderson State Historic Site.” In: Beaman TB Jr, Melomo VH. “*At Night We Sleep in a Shanty I Have Constructed of Planks, Logs, and Sand... on a Pile of Pine Straw*”: *Archaeological Excavations of the Fort Anderson Overflow Barracks Area West of Battery A (31BW376\*\*12) and Metal Detector Survey of a Suspected Barracks Area West of Battery B (31BW376\*\*7) at Brunswick Town/Fort Anderson State Historic Site*. Final report prepared for Brunswick Town/Fort Anderson State Historic Site, Winnabow, North Carolina. Volume I: Technical Report, pp. F1–F36.
- 2015 Reber EA, Kerr MT. “Absorbed Residue Analysis of Pottery Sherds.” In: *Graveline: a Late Woodland Platform Mound on the Mississippi Gulf Coast*, edited by JH Blitz and LE Downs. Archaeological Report Number 34, Mississippi Department of Archives and History, Jackson, MS. pp. 55–66.
- 2014 Kerr MT, Horn SP, Lane CS, Johanson EN. “Report on Stable Carbon and Nitrogen Isotope Analysis of 6 Pottery Surface Residue Samples and 1 Soil Sample from Site L72NC, Costa Rica.” Report prepared for the Laboratorio de Arqueología, Escuela de Antropología, Universidad de Costa Rica.
- Kerr MT, Horn SP, Lane CS, Johanson EN. “Report on Stable Carbon and Nitrogen Isotope Analysis of 3 Pottery Surface Residue Samples from Site C304AC, Costa Rica.” A report prepared for the Laboratorio de Arqueología, Escuela de Antropología, Universidad de Costa Rica.
- Kerr MT, Boehm MS, Horn SP, Lane CS. “Report on Loss-on-Ignition, Pollen, and Stable Carbon and Nitrogen Isotope Analyses in Soil Samples from the Guayabo de Turrialba Site, Costa Rica.” In: Alarcón Z GM. *Informe Proyecto Arqueológico: Estudio de los Límites Especiales y Temporales del Sitio Arqueológico Guayabo de Turrialba (C-362 MNG). Segunda Fase. Informe Temporada 2013*. Universidad de Costa Rica, Facultad de Ciencias Sociales, Escuela de Antropología, Laboratorio de Arqueología.

- 2012 Kerr MT, Reber EA. “Absorbed Residue Analysis of 14 Pottery Sherds, 1 Soil Sample, and 1 Unknown from the Barracks West of Battery A at Brunswick Town – Fort Anderson.” *UNCW Anthropological Papers* Vol. 21. *Papers of the UNCW Residue Laboratory* Vol. 16. Archaeological Residue Laboratory. University of North Carolina Wilmington, NC.
- Reber EA, Kerr MT. “Absorbed Residue Analysis of 10 Pottery Sherds from 8SU377.” *UNCW Anthropological Papers* Vol. 19. *Papers of the UNCW Residue Laboratory* Vol. 14. Archaeological Residue Laboratory. University of North Carolina Wilmington, NC.
- 2011 Reber EA, Kerr MT. “Absorbed Residue Analysis of 11 Sherds and 1 Soil Sample from the Graveline Mound Site, Mississippi.” *UNCW Anthropological Papers* Vol. 17. *Papers of the UNCW Residue Laboratory* Vol. 12. Archaeological Residue Laboratory. University of North Carolina Wilmington, NC.

### **Professional Meeting Presentations**

- 2021 Lane CS, Yanuskiewicz E, Horn SP, Kerr MT, Taylor AK. “Interpretation of Age Offsets between Alkanes and Stratigraphically Coeval Sediments and Macrofossils in Lacustrine Cores.” A paper accepted to the Annual Meeting of the American Association of Geographers, Seattle, WA (virtual paper session).
- 2020 Franklin AE, Kerr MT. “Studying Levels and Perceptions of Severe Weather Preparedness in UTK Students.” A virtual poster presented at EURēCA: The Exhibition of Undergraduate Research and Creative Achievement at the University of Tennessee, Knoxville, TN.
- LaFollette AG, Blentlinger LR, Clance JJ, Horn SP, Lane CS, Artavia LG, Kerr MT. “How sample pretreatments affect stable isotope values in lake sediments.” A virtual poster presented at EURēCA: The Exhibition of Undergraduate Research and Creative Achievement at the University of Tennessee, Knoxville, TN.
- Wright WJ, Horn SP, Cecil JA, Smith CE, Boehm MS, Arford MR, Kerr MT. “Point-counts of microscopic charcoal in lake sediments from Belize and Costa Rica: comparisons with other charcoal proxies of past fire.” A virtual poster presented at EURēCA: The Exhibition of Undergraduate Research and Creative Achievement at the University of Tennessee, Knoxville, TN.
- Kerr MT, Lane CS, Horn SP. “Developing Bulk Carbon and Nitrogen Isotope Records from Lake Sediments: Can We Use the Same Acid-Fumigated Samples for Both Analyses?” A paper accepted to the Annual Meeting of the American Association of Geographers, Denver, CO. (meeting cancelled due to COVID-19)
- Horn SP, Kerr MT, Lane CS, Haberyan KA, Arford MR. “An 8000-year Precipitation Record from the Central American Dry Corridor” A paper accepted to the Annual Meeting of the American Association of Geographers, Denver, CO. (meeting cancelled due to COVID-19)
- Lane CS, Yanuskiewicz E, Horn SP, Kerr MT, Taylor AK. “Interpretation of Age Offsets between Alkanes and Stratigraphically Coeval Sediments and Macrofossils in Lacustrine Cores.” A paper accepted to the Annual Meeting of the American Association of Geographers, Denver, CO. (meeting cancelled due to COVID-19)

- 2019 Wright WJ, Horn SP, Cecil JA, Smith CE, Boehm MS, Arford MR, Kerr MT. "Point counting of microscopic charcoal in sediment cores from two Central American lakes." A poster presented at the Annual Meeting of the Southeastern Division of the American Association of Geographers, Wilmington, NC.
- Kerr MT, Horn SP, Lane CS. "A Revised Chronology of Paleohydrology and Vegetation Change at Laguna Bonillita, Costa Rica." A paper presented at the Annual Meeting of the American Association of Geographers, Washington, DC.
- Johanson EN, Kerr MT, Horn SP, Blentlinger LR, Lane CS. "A 4,200-year record of fire history from the southern Pacific Costa Rica lowlands." A paper presented at the Annual Meeting of the American Association of Geographers, Washington, DC.
- Yanusiewicz E, Lane C, Johanson E, Kerr MT, Horn S. "Compound-Specific Stable Carbon Isotope Analysis of Vegetation and Land-Use Change at Laguna Los Mangos, Costa Rica." A paper presented at the Annual Meeting of the American Association of Geographers, Washington, DC.
- Horn SP, Boehm MS, Kerr MT, Wright WJ, Reed EE, Lane CS, Arford MR, Graham JE. "New Proxy Analyses from Laguna Martinez, Costa Rica." A paper presented at the Annual Meeting of the American Association of Geographers, Washington, DC.
- Boehm MS, Horn SP, Kerr MT, Driese SG, Lane CS. "Henson Branch Revisited: Holocene Environmental Dynamics in Western Tennessee." A paper presented at the Annual Meeting of the American Association of Geographers, Washington, DC.
- 2018 Kerr MT, Horn SP, Lane CS. "Sedimentary Nitrogen as a Proxy for Prehistoric Forest Clearance and Site Abandonment in Southern Pacific Costa Rica." A paper presented at the Annual Meeting of the Southeastern Division of the American Association of Geographers, Johnson City, TN.
- Blentlinger LR, Horn SP, Kerr MT, Lane CS. "Hydrogen Isotope Analysis of *n*-Alkanes in Sediments of Emerald Pond, Abaco Island, The Bahamas." A paper presented at the Annual Meeting of the Southeastern Division of the American Association of Geographers, Johnson City, TN.
- Horn SP, McKay LD, Cyr HJ, Driese SG, Perilla-Castillo PJ, Boehm MS, Kerr MT, Tran L. "A 1000-Year Paleoflood Record from the Tennessee River near Decatur, Tennessee." A paper presented at the Annual Meeting of the Geological Society of America, Indianapolis, IN.
- Kerr MT, Horn SP, Lane CS. "A 10,000 Year Hydrogen Isotope Record of Precipitation Variability from Highland Costa Rica." A paper presented at the Annual Meeting of the American Association of Geographers, New Orleans, LA.
- MacLennan E, Horn SP, Kerr MT, Lane C, Ellis K. "A Compound-Specific Hydrogen Isotope Record of Precipitation from Coastal North Hispaniola." A paper presented at the Annual Meeting of the American Association of Geographers, New Orleans, LA.
- Kerr MT, Horn SP, Grissino-Mayer HD, Stachowiak LA. "Annual Growth Zones in Stems of *Hypericum irazuense*: a New Fire Proxy in Highland Costa Rica." A paper presented at GeoSym18: The University of Tennessee Department of Geography Research Symposium, Knoxville, TN.

- 2017 Blentlinger LR, Horn SP, Johanson EJ, Kerr MT, Lane CS, Boehm MS, Cecil JA. "Proxy Analysis of Wetland Sediments in Costa Rica." A poster presented at the Annual Meeting of the Southeaster Division of the American Association of Geographers, Starkville, MS.
- Blentlinger LR, Horn SP, Johanson EJ, Kerr MT, Cecil JA, Lane CS, Boehm MS. "Reconstructing Past Environments in Costa Rica through Analyses of Wetland Sediments." A poster presented at the Discovery Day Campus-Wide Experiential Learning Expo, The University of Tennessee, Knoxville, TN.
- Kerr MT, Tieche TE, Horn RD, Bissett TG, Anderson DG, Horn SP. "Sub-Annual Resolution Oxygen Isotope Analysis Reveals Season of Harvest in Archaeological Freshwater Mussel Shells from Middle Tennessee." A paper presented at the Annual Meeting of the American Association of Geographers, Boston, MA.
- Kerr MT, Lane CS, Horn SP. "Análisis Tipo Compuesto-Específico de los Isótopos Estables del Hidrógeno ( $\delta D$ ) de Núcleos de Sedimento Lacustres: un Método Clave para Reconstruir Sequías Prehistóricas y sus Efectos" [Compound-Specific Stable Hydrogen Isotope ( $\delta D$ ) Analysis of Lake-Sediment Cores: a Key Method for Reconstructing Prehistoric Droughts and Effects]. A paper presented at the XI Congreso de la Red Centroamericana de Antropología, San José, Costa Rica.
- Horn SP, Lane CS, Johanson EN, Sánchez M, Taylor ZP, Kerr MT. "Isótopos de Carbono Estables en los Sedimentos Lacustres en Costa Rica como Indicador de la Deforestación y el Cultivo" [Stable Carbon Isotope Ratios in Costa Rican Lake Sediments as a Proxy for Forest Clearance and Crop Cultivation]. A paper presented at the XI Congreso de la Red Centroamericana de Antropología, San José, Costa Rica.
- 2016 Kerr MT, Reber EA. "Investigating Prehistoric Pottery to Reconstruct Diets: Do Natural Geolipids in Clays Survive Firing to Affect Interpretations?" A poster presented at the Annual Meeting of the Southeaster Division of the American Association of Geographers, Columbia, SC.
- Kerr MT, Horn SP, Lane CS. "Precipitation Variability over the Past 2500 Years at Laguna Bonillita, Costa Rica." A paper presented at the Annual Meeting of the American Association of Geographers, San Francisco, CA.
- Horn SP., Sánchez M, Lane CS, Taylor ZP, Kerr MT, Johanson EN, Cecil JA. "Late Holocene Fires in Costa Rica: Patterns and Drivers." A paper presented at the Annual Meeting of the American Association of Geographers, San Francisco, CA.
- Kerr MT. "The State of Paleoindian Research in Costa Rica." A paper presented at GeoSym16: The University of Tennessee Department of Geography Research Symposium, Knoxville, TN.
- 2015 Kerr MT, Bissett TG, Horn SP, Lane CS, Anderson DG. "Archaeological Freshwater Mussel Shells as a Paleoclimate Proxy in Middle Tennessee: Potentials and Limitations." A poster presented at the Annual Meeting of the Association of American Geographers, Chicago, IL.
- 2014 Lane CS, Horn SP, Kerr MT. "Compound-Specific Hydrogen Isotope Evidence of the Terminal Classic Drought from Hispaniola and Potential Impacts on Caribbean Societies." A poster presented at the Annual Meeting of the Geological Society of America, Vancouver, BC, Canada.

Kerr MT, Grissino-Mayer HD, Horn SP, Stachowiak LA. "Tropical Dendrochronology: Growth Zones in a Páramo Shrub as an Indicator of Fire History." A paper presented at the Annual Meeting of the Southeastern Division of the Association of American Geographers, Athens, GA.

Kerr MT, Lane CS, Horn SP. "Stable Isotope Analysis of Land-Use History at Laguna Santa Elena, Costa Rica." A paper presented at the Annual Meeting of the Association of American Geographers, Tampa, FL.

Kerr MT, Horn SP, Lane CS. "The Relationship between Organic Matter and Organic Carbon in Lake Sediments from Laguna Santa Elena, Costa Rica: a Preliminary Assessment of the Potential as a Paleoenvironmental Proxy." A paper presented at GeoSym14: The University of Tennessee Department of Geography Research Symposium, Knoxville, TN.

Bleakney SA, Kerr MT, Horn SP, Lane CS. "Stable Isotopic Signatures in Charcoal from a Costa Rican Sediment Core." A poster presented at GeoSym14: The University of Tennessee Department of Geography Research Symposium, Knoxville, TN.

2013 Lane CS, Horn SP, Kerr M, Orvis KH. "Compound-Specific Hydrogen Isotope Evidence of Late-Quaternary Paleohydrology in the Highlands of Costa Rica." A paper presented at the Annual Meeting of the Association of American Geographers, Los Angeles, CA.

2012 Kerr MT, Reber EA, Beaman TE Jr. "Investigating Patterns of Regional Continuity and Variation in Absorbed Pottery Residues from Two Assemblages of Carolina Colonoware." A paper presented at the Archaeological Sciences of the Americas Symposium, Nashville, TN.

Kerr MT, Reber EA. "The Brunswick Town – Fort Anderson Project: A Baseline Analysis of Absorbed Pottery Residues from 31BW376\*\*12." A Paper presented at the Annual Meeting of the Society for American Archaeology, Memphis, TN.

Kerr MT, Temple DH. "Interpreting Sex Differences in Dental Caries among Prehistoric Late/Final Jomon Period People from Japan: Regional Perspectives on Dietary Variation and Reproductive Ecology." A paper presented at the Annual Meeting of the American Association of Physical Anthropologists, Portland, OR.

2011 Reber EA, Kerr MT. "Diagenesis and Soil-Sherd Interactions in Experimentally Produced Black Drink Residues." A paper presented at the Annual Meeting of the Society for American Archaeology, Sacramento, CA.

### **Professional Meeting Sessions Organized**

2020 New Records of Paleoenvironmental Change, Sessions I-IV. A series of paper sessions organized for the Annual Meeting of the American Association of Geographers, Denver, CO. (meeting cancelled due to COVID-19)

2019 New Records of Paleoenvironmental Change, Sessions I-IV. A series of paper sessions organized for the Annual Meeting of the American Association of Geographers, Washington, DC.

2018 Paleoenvironments of the Southeastern U.S. and Circum-Caribbean. A special paper session organized for the Annual Meeting of the Southeastern Division of the American Association of Geographers, Johnson City, TN. (w/ S. Horn)



Novel Paleorecords of Environmental Change, Sessions I–V. A series of paper sessions organized for the Annual Meeting of the American Association of Geographers, New Orleans, LA. (w/ A. Agosta-G’Meiner)

Biogeography and Paleoclimates. A paper session organized for GeoSym18: The University of Tennessee Department of Geography Research Symposium, Knoxville, TN.

- 2017 Graduate Student Health and Wellbeing: A Frank Discussion, Sessions I–III. A series of panel discussions organized for the Annual Meeting of the American Association of Geographers, Boston, MA.

New Records of Paleoenvironmental Change, Sessions I–V. A series of paper sessions organized for the Annual Meeting of the American Association of Geographers, Boston, MA. (w/ A. Agosta-G’Meiner)

- 2016 When Graduate Students Teach: Tips and Strategies to Help You Succeed. A panel discussion organized for the Annual Meeting of the Southeast Division of the American Association of Geographers, Columbia, SC. (w/ S. Horn)

New Records of Paleoenvironmental Change, Sessions I–II. A series of paper sessions organized for the Annual Meeting of the American Association of Geographers, San Francisco, CA. (w/ A. Agosta-G’Meiner)

Archaeology. A paper session organized for GeoSym16: The University of Tennessee Department of Geography Research Symposium, Knoxville, TN.

- 2013 Involving Undergraduates in Field and Laboratory Research in Geography. A panel discussion organized for the Annual Meeting of the Southeastern Division of the Association of American Geographers, Roanoke, VA. (w/ S. Horn)

### **Invited Presentations**

- 2013 Kerr MT, Horn SP. “Aplicaciones del Análisis de Residuos de Cerámica para Reconstruir la Dieta y el Comercio” [Applications of Pottery Residue Analysis for Reconstructing Diet and Trade]. Escuela de Antropología, Universidad de Costa Rica.

Kerr MT, Bissett TG. “Archaeological Freshwater Shell Middens: A Source of Paleoclimate Signals or Just Yesterday’s Fish?” The University of Tennessee Initiative for Quaternary Paleoclimate Research Seminar Series, Knoxville, TN.

### **Honors and Awards**

- 2019 UT Geography Exceptional Professional Accomplishment Award
- 2018 UT Extraordinary Professional Promise Award  
UT Geography Publication Leadership Award
- 2017 UT Geography Student Publication Award
- 2016 UT Geography Outstanding Graduate Teaching Associate Award  
UT Geography Extraordinary Service to the Department Award

- 2015 AAG Paleoenvironmental Change Outstanding Poster Presentation Award  
UT Geography Student Publication Award
- 2014 Gamma Theta Upsilon Excellence in Geography Award  
UT Geography Outstanding Graduate Teaching Assistant Award  
UT Geography Extraordinary Service to the Department Award  
UT Geography Student Publication Award
- 2012 National Collegiate Honors Council Portz Scholar, UNC-Wilmington Nominee  
Jenkins Distinguished Achievement Award, Lambda Alpha Honor Society  
James C. Sabella Academic Excellence Award, UNC-Wilmington

### **Professional Workshops Attended**

- 2013 Chironomids in Paleoclimate Research. A workshop led by D. Porinchu, Department of Geography, University of Georgia.

### **Current Research Interests**

- Quaternary paleoenvironments and paleoclimate reconstruction.
- Prehistoric human-environment interactions.
- Circum-Caribbean paleoenvironments and archaeology.
- Compound-specific stable isotope biogeochemistry.
- Archaeogeochemistry.
- Applications of gas chromatography/mass spectrometry.
- Experimental biomarker, proxy, and methods development.
- Prehistoric land use and resource exploitation.
- Rise, fall, and regeneration of complex civilizations.

### **Professional Service**

- 2021– AAG Paleoenvironmental Change Specialty Group Secretary-Treasurer
- 2017– UT Department of Geography Chemical Hygiene Safety Officer
- 2017–2018 UT College of Arts and Sciences Graduate Career Planning Task Force
- 2016–2018 UT College of Arts and Sciences Dean’s Graduate Student Advisory Council
- 2016–2017 Board of Directors, AAG Paleoenvironmental Change Specialty Group
- 2015–2016 UT Graduate Student Senator, Department of Geography
- 2014–2016 Advisor to GeoSym16: The UT Geography Research Symposium
- 2013–2016 Co-organizer, UT Initiative for Quaternary Paleoclimate Research Seminar Series
- 2015 Conference volunteer, AAG Annual Meeting, Chicago, IL.
- 2014–2015 UT Department of Geography Graduate Program Committee Member
- 2012–2014 Co-chair of the Steering Committee, GeoSym14: UT Geography Research Symposium
- 2012–2013 UT Geography, Stewart K. McCroskey Memorial Fund Oversight Committee
- 2011–2012 Treasurer, UNCW Historical Society

### **Advising**

|           |               |   |
|-----------|---------------|---|
| 2021–     | Jared Crain   | MS Committee Member (chair: S. Horn)                |
| 2021      | Anna Franklin | Co-Advisor, Chancellor's Honors Thesis (w/K. Ellis) |
| 2020      | Anna Franklin | Faculty Mentor, GEOG 493 Independent Study          |
| 2019–2020 | MonTré Hudson | MS Committee Member (changed advisors and projects) |

Graduate Student Mentor for 11 undergraduate students (\*enrolled in/completed an MA or MS program):

|      |                   |   |
|------|-------------------|---|
| 2018 | Luke Blentlinger* | NSF Grant #1660185  |
|      | Morgan Steckler   | NSF Grant #1660185  |
| 2017 | Luke Blentlinger* | GEOG 494 – Undergraduate Research Experience  |
|      | Trell Stroud      | GEOG 494 – Undergraduate Research Experience<br>CHEM 300 – Introductory Research in Chemistry |
| 2016 | Luke Blentlinger* | GEOG 494 – Undergraduate Research Experience  |
|      | Taylor Tieche     | GEOG 493 – Independent Research (SP16 and SU16)   |
|      | Jonathan Unger*   | GEOG 494 – Undergraduate Research Experience  |
| 2015 | Taylor Tieche     | GEOG 494 – Undergraduate Research Experience  |
|      | Justin Grabowski  | GEOG 494 – Undergraduate Research Experience  |
|      | Leslie Muller     | GEOG 494 – Undergraduate Research Experience  |
| 2014 | Damani Driver*    | GEOG 494 – Undergraduate Research Experience  |
|      | Sarah Bleakney*   | UT-IQPR Undergraduate Research Assistantship  |
| 2013 | Paul Lemieux*     | GEOG 494 – Undergraduate Research Experience  |
|      | Sarah Bleakney*   | GEOG 493 – Independent Research<br>GEOG 494 – Undergraduate Research Experience               |

### Professional Affiliations

- American Chemical Society
- American Association of Geographers
- Association for Tropical Biology and Conservation
- Society for American Archaeology
- Southeastern Division of the American Association of Geographers
- Gamma Theta Upsilon International Geographic Honor Society
- Lambda Alpha National Anthropology Honor Society
- Phi Alpha Theta National History Honor Society
- Phi Kappa Phi Honor Society