

## Curriculum Vitae

Sally P. Horn  
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### ADDRESS:

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### EDUCATION:

University of California, Berkeley.

- B.A. June 1980, Geography (Highest honors). Thesis: *Late Holocene Sedimentation at Zaca Lake, Santa Barbara County, California.*
- M.A. June 1983, Geography. Thesis: *Late Quaternary Vegetation Change in Western Costa Rica: Pollen Evidence from Deep Sea Drilling Project Site 565.*
- Ph.D. May 1986, Geography. Dissertation: *Fire and Páramo Vegetation in the Cordillera de Talamanca, Costa Rica.*

### RESEARCH INTERESTS:

Quaternary vegetation and climate change in the circum-Caribbean region and southeastern USA  
Fire ecology and fire history  
Páramo ecosystems and their long-term history  
Human influences on vegetation

### UNIVERSITY APPOINTMENTS:

- 1986 University of California, Berkeley, Office of Summer Sessions, Lecturer (Geography).
- 1986–1987 University of California, Berkeley, Department of Geography, Visiting Lecturer.
- 1987–1993 University of Tennessee, Knoxville, Department of Geography, Assistant Professor.
- 1988–1998 University of Tennessee, Knoxville, Graduate Program in Ecology, Faculty member.
- 1992– University of Tennessee, Knoxville, Department of Botany, Adjunct Faculty member.
- 1993–2000 University of Tennessee, Knoxville, Department of Geography, Associate Professor.
- 1998– University of Tennessee, Knoxville, Department of Ecology and Evolutionary Biology, Adjunct Faculty member.
- 2000– University of Tennessee, Knoxville, Department of Geography, Professor.

## PROFESSIONAL HONORS AND AWARDS:

- 1992 Phi Beta Kappa Certificate of Merit for Scholarly Achievements in the Liberal Arts, Phi Beta Kappa of Tennessee.
- 1992 Junior Faculty Award for Research and Creative Achievement, College of Liberal Arts, University of Tennessee.
- 1994 Finalist, Chancellor's Outstanding Teaching Award, University of Tennessee.
- 1993–2001 Science Alliance Award, University of Tennessee (8 awards).
- 2000 Fellow, Center for Undergraduate Excellence, University of Tennessee.
- 2000 Outstanding Teaching Award, Department of Geography, University of Tennessee.
- 2001 Fellow, Center for Undergraduate Excellence, University of Tennessee.
- 2002 Carl O. Sauer Distinguished Scholarship Award , Conference of Latin Americanist Geographers.
- 2003 Chancellor's Award for Research and Creative Achievement, University of Tennessee.
- 2003 Nominee, NSF Distinguished Teaching Scholar Award, University of Tennessee.
- 2003 Elected as a Fellow, Section on Geography and Geology, American Association for the Advancement of Science.
- 2005 Named an Honorary Member of the Asociación Antropológica Costarricense
- 2007–2009 Betty Lynn Hendrickson Professorship, College of Arts and Sciences, University of Tennessee.
- 2008– Chancellor's Professor, University of Tennessee.
- 2008 Faculty Academic Outreach Award for research outreach, College of Arts and Sciences, University of Tennessee.
- 2010 Finalist, Chancellor's Outstanding Academic Outreach Award, University of Tennessee.
- 2010 Barry Bishop Distinguished Career Award from the Mountain Geography Specialty Group of the Association of American Geographers.
- 2011 Nominee, Tennessee Science Teachers Association's Science Educator of the Year Award, University of Tennessee.
- 2013–2015 Betty Lynn Hendrickson Professorship, College of Arts and Sciences, University of Tennessee.
- 2013 Senior Teaching Award, College of Arts and Sciences, University of Tennessee.
- 2014 James J. Parsons Distinguished Career Award from the Biogeography Specialty Group of the Association of American Geographers.
- 2014 Lifetime Achievement Award, Southeastern Division of the Association of American Geographers.
- 2015 Distinguished Senior Research Award, College of Arts and Sciences, University of Tennessee.

- 2016 Outstanding Graduate Teaching Award, Department of Geography, University of Tennessee.
- 2017 Outstanding Graduate Teaching Award, Department of Geography, University of Tennessee.
- 2018 Outstanding Graduate Teaching Award, Department of Geography, University of Tennessee.
- 2018 Chancellor's Award for Excellence in Advising, University of Tennessee.
- 2020 Presidential Achievement Award, American Association of Geographers.
- 2020 Ellen Mosley Thompson Best Publication Award from the Paleoenvironmental Change Specialty Group of the American Association of Geographers, for the paper, Late Holocene Hydroclimate Variability in Costa Rica: Signature of the Terminal Classic Drought and the Medieval Climate Anomaly in the Northern tropical Americas. *Quaternary Science Reviews* 215: 144–159, authors J. Wu, D. Porinchu, and S. Horn.

**GRANTS AND FELLOWSHIPS:**

- 1980–1981 Regents Fellowship, University of California, Berkeley.
- 1981–1986 National Science Foundation Graduate Research Fellowship.
- 1981–1986 Graduate Division, University of California, Berkeley: six grants to support laboratory and field research and professional travel; total \$2805.
- 1983 Center for Latin American Studies, University of California, Berkeley: Prehistoric Disturbance of Tropical Forest Ecosystems: A Study of Man and Vegetation Change in Costa Rica; \$1800.
- 1984–1985 U.S. Information Agency: Fulbright grant for Ph.D. research in Costa Rica; \$10,270.
- 1984 Center for Latin American Studies, University of California, Berkeley: Human Impacts on Tropical Montane Vegetation: A Study of Fire History in the Cordillera de Talamanca, Costa Rica; \$1164.
- 1985 Association of American Geographers: Fire History and Páramo Vegetation in the Cordillera de Talamanca, Costa Rica; \$300.
- 1985–1987 Committee on Teaching, University of California, Berkeley: two grants to purchase and prepare teaching materials; \$355.
- 1986 Graduate Division, University of California, Berkeley: Chancellor's patent fund award to purchase equipment for research on the use of automated image analysis in studies of long-term fire history; \$1295.
- 1987–1988 College of Liberal Arts, University of Tennessee: research incentive award to purchase field equipment for teaching and research in physical geography; \$3380.
- 1988–1989 Professional Development Award Program, University of Tennessee: Prehistoric Human Disturbance of Tropical Forest Ecosystems in Costa Rica; \$4500.
- 1988 Association of American Geographers: Prehistoric Human Impacts on Tropical Vegetation in Costa Rica; \$500.

- 1988–1991 National Geographic Society: Late Quaternary Environmental History of a Glaciated Tropical Highland; \$8600.
- 1990–1991 Professional Development Award Program, University of Tennessee: Historical Biogeography of Montane Mires in Costa Rica; \$4500.
- 1990 Southern Regional Education Board: travel grant; \$467.
- 1991–1994 National Geographic Society: Costa Rican Paleoecology: Microfossils in Modern and Holocene Lake Sediments; \$16,340 (with K. Haberyan and G. Vargas).
- 1991–1994 National Geographic Society: supplemental award for AMS dating of Holocene sediment cores; \$3210.
- 1991–1992 Professional Development Award Program, University of Tennessee: Paleoecology in the Latin American Tropics: Modern Pollen, Charcoal, and Diatom Assemblages in Costa Rican Lake Sediments; \$4500.
- 1991 Association of American Geographers: Microfossils in Costa Rican Lake Sediments: Geographical and Ecological Determinants; \$500.
- 1991–1994 National Science Foundation (Geography and Regional Science and Human Dimensions of Global Environmental Change Programs, and Division of Biotic Resources): Rainforest Fires, Human Disturbance, and Vegetation History in PreColumbian Costa Rica; \$115,124.
- 1992–1994 National Science Foundation (Geography and Regional Science Program): Research Experiences for Undergraduates supplement to award #9111588, Rainforest Fires, Human Disturbance, and Vegetation History in PreColumbian Costa Rica; \$5000.
- 1992–1993 College of Liberal Arts, University of Tennessee: research incentive award to purchase computer equipment and GIS software; \$15,000 (with B. Ralston and C. Harden).
- 1993–1995 Professional Development Award Program, University of Tennessee: Prehistoric Human Disturbance of Rain Forests in the Venezuelan Amazon: Evidence from Soil Charcoal, Pollen, and Chemistry; \$5000.
- 1993 Southern Regional Education Board: travel grant; \$530.
- 1994–1995 Professional Development Award Program, University of Tennessee: Ice and Fire in the Caribbean: Paleoenvironmental Research in the Dominican Republic; \$5000.
- 1994–1995 Office of Research Administration, University of Tennessee: research incentive award to purchase sediment coring equipment; \$2500.
- 1994–1995 McCroskey Award Program, Department of Geography, University of Tennessee: Modern Vegetation and Environmental History of the Alto de la Bandera, Dominican Republic; \$650 (with L. Kennedy)
- 1995–1996 National Science Foundation (Directorate for Social, Behavioral, and Economic Sciences): Equipment for Environmental Research in Geography; \$21,076 (with C. Harden and K. Orvis).
- 1996–1998 The Andrew W. Mellon Foundation: Ecological Land Use History in the New World Tropics; \$200,000 (with R. L. Sanford, Jr.).

- 1996–1999 National Geographic Society: 'Glacial' Bogs in the Dominican Republic: Stratigraphic and Paleoecological Analyses; \$29,406 (with K. Orvis and G.M. Clark).
- 1996 Moscoso Puello Foundation, Santo Domingo, Dominican Republic: financial contribution to 1996 expedition to Pico Duarte and surroundings; \$4500 plus additional in-kind contributions (with K. Orvis and G.M. Clark).
- 1996 Professional Development Award Program, University of Tennessee: Travel to International Conference on Quaternary Glaciation and Paleoclimate in the Andes Mountains; \$1800 (declined due to scheduling conflict).
- 1996–1997 National Science Foundation (Directorate for Social, Behavioral, and Economic Sciences): Research Experiences for Undergraduates supplement to award #9512484, Equipment for Environmental Research in Geography; \$5000 (with C. Harden and K. Orvis).
- 1997 Scholarly Activity Research Incentive Fund, University of Tennessee: summer research assistantship to support graduate student working with GIS coverages of Costa Rica and the Dominican Republic; \$3000.
- 1997 McCroskey Award Program, Department of Geography, University of Tennessee: Geomorphological Reconnaissance in Valle Nuevo, Dominican Republic; \$900 (with K. Orvis).
- 1997–2001 National Geographic Society: Lake Sediments and Environmental History in Costa Rica; \$59,175 (with K. Haberyan, G. Umaña, M. Sánchez, S. Chávez, and others).
- 1998 McCroskey Award Program, Department of Geography, University of Tennessee: Purchase of a Chain Saw for Collecting Tree-Ring Samples; \$1009 (with K. Orvis and J. Speer).
- 1998–1999 National Science Foundation (Geography and Regional Science Program): Doctoral Dissertation Research: Local Scale Impacts of Native Americans on Fire and Vegetation Dynamics in Northern New York; \$6700 (with R. Brown; to support his Ph.D. research).
- 1998–1999 PRIME lab, Purdue University: Pilot Cosmogenic Isotope Study of Tropical Pleistocene Moraine Sequences in Costa Rica and the Dominican Republic; lab analyses valued at \$8750 (with K. Orvis, G.M. Clark, and L. Kennedy).
- 1998–2002 National Science Foundation (Geography and Regional Science Program): Physical and Biotic Evidence of Glacial Ice and Climate in the Cordillera Central, Dominican Republic; \$207,333 (with K. Orvis and G.M. Clark).
- 1999–2000 Professional Development Award Program, University of Tennessee: Tropical Paleoclimates Revisited: The Ancient Glaciers of Cerro Chirripó, Costa Rica; \$4000 (with K. Orvis).
- 1999–2000 McCroskey Award Program, Department of Geography, University of Tennessee: Paleoclimates and Ancient Glaciers in Costa Rica; \$500 (with K. Orvis, B. League, and C. Lafon).
- 1999–2001 National Science Foundation (Geography and Regional Science Program): Doctoral Dissertation Research: Fire-Vegetation Dynamics in Highland Pine Forests of the Dominican Republic: An Investigation at Multiple Time Scales; \$9996 (with L. Kennedy; to support her Ph.D. research).
- 1999–2005 The Andrew.W. Mellon Foundation: Comparative Land Use History in the New World Tropics: Reconstructing Regional Patterns; \$500,000 (with R.L. Sanford, Jr.).

- 2000–2001 National Geographic Society: Climate and Environmental History in the Dominican Republic; \$25,400 (with K. Orvis and others).
- 2000–2001 National Science Foundation (Geography and Regional Science Program): Research Experiences for Undergraduates supplement to award #9809798, Physical and Biotic Evidence of Glacial Ice and Climate in the Cordillera Central, Dominican Republic; \$5000 (with K. Orvis).
- 2001 Professional Development Award Program, University of Tennessee: Tropical Vegetation and Climate in Tennessee and the Dominican Republic; \$4180.
- 2001 National Alumni Association/CUE/ITC Program, University of Tennessee: grant to purchase digital camera and accessories; \$500.
- 2001–2004 University of Tennessee, Proposal for a New Initiative for the Interdisciplinary Study of Global Environmental Change; \$500,000 (with C. Mora, S. Driese, H. Grissino-Mayer, C. Harden, K. Orvis, J. Grebmeier, and L. Cooper).
- 2001–2002 National Geographic Society: Climate and Environmental History in the Dominican Republic; \$20,782 (with K. Orvis and others).
- 2002 Exhibit, Performance, and Publication Expenses Fund, University of Tennessee: grant to cover page charges; \$240.
- 2002 Exhibit, Performance, and Publication Expenses Fund, University of Tennessee: grant to cover page charges; \$100.
- 2003 Exhibit, Performance, and Publication Expenses Fund, University of Tennessee: grant to cover translation costs for chapters in *Páramos of Costa Rica*; \$1171.
- 2003–2006 National Science Foundation (Geography and Regional Science Program): Lake-Sediment Records of Holocene Droughts, Indigenous Agriculture, and Prehispanic Vegetation and Fire Regimes in Northwestern Costa Rica; \$191,723.
- 2003–2006 National Science Foundation (Geography and Regional Science and Paleoclimate Programs): Establishing a Multi-Century Annual-Resolution Climate Record from the Northeastern Caribbean; \$153,072 (with K. Orvis and H. Grissino-Mayer).
- 2004–2005 Scholarly Activities Research Fund, University of Tennessee: Sediment Records of Long-Term Vegetation Dynamics and Human Disturbance from Knoxville-area Lakes. Summer research assistantship to support graduate student; \$3000.
- 2004–2005 National Science Foundation (Geography and Regional Science Program): Research Experiences for Undergraduates supplement to award #0242286, Lake-Sediment Records of Holocene Droughts, Indigenous Agriculture, and Prehispanic Vegetation and Fire Regimes in Northwestern Costa Rica; \$6000 (with K. Orvis).
- 2005–2006 Association of American Geographers: Soil Charcoal Evidence of Fire History in Table Mountain Pine Stands in Great Smoky Mountains National Park, USA; \$1000.
- 2005–2006 WOTRO (Foundation for the Advancement of Tropical Research of the Netherlands Organization for Scientific Research): Transfer of Knowledge on Tropical Páramo Ecosystems to Local Stakeholders for Enhancing Research and Biodiversity Conservation in Costa Rica; \$13,900 USD (with M. Kappelle and F. Rojas).
- 2005–2007 National Ocean Sciences AMS Laboratory: Application of Radiocarbon Analyses in Dating Recent Sediments in Costa Rica; \$5000-in kind laboratory support.

- 2005–2007 National Geographic Society: Climate History at the Neotropical Edge: Sediment Records from Abaco Island, the Bahamas; \$19,850 (with K. Orvis, H.D. Grissino-Mayer, and D.A. Knowles).
- 2005–2006 Department of the Interior National Park Service: Feasibility Study for Pollen and Phytolith Analysis at the Melrose Estate, Natchez, Mississippi; \$10,340 (with B. Driskell).
- 2006 Scholarly Activity Research Incentive Fund, University of Tennessee: equipment grant for replacement drilling rods; \$1700 (with K. Orvis).
- 2006–2007 Carlos C. Campbell Memorial Fellowship, Great Smoky Mountains Conservation Association: Soil Charcoal Evidence of Long-term Fire History in Table Mountain Pine Stands in Great Smoky Mountains National Park; \$3570 (with H. Grissino-Mayer).
- 2006–2011 National Science Foundation (Geography and Regional Science): Holocene Climate and Environmental History in the Northeastern Caribbean; \$200,000 (with K. Orvis and C. Mora).
- 2006–2011 National Science Foundation (Division of Graduate Education): Track I, GK-12: Enriching Earth Science in Rural Tennessee Middle Schools Through Research-Based Activities on Climate and Environmental History; \$1,957,148 (with L. Champion and K. Orvis).
- 2006–2010 Joint Fire Science Program: Fire Regimes of the Southern Appalachian Mountains: Temporal and Spatial Variability over Multiple Scales and Implications for Ecosystem Management; \$299,996 (with C. Lafon and H. Grissino-Mayer).
- 2006–2007 Friends of Calico Foundation: \$1000 to support initial pollen analysis of Manix lake sediments.
- 2007–2008 The Nature Conservancy: Assessing the Potential for Reconstructing Fire History from Charcoal in Sediments and Soils of Cuatro Ciénegas, Mexico; \$15,000.
- 2007–2008 U.S. Fish and Wildlife Service: Sediment Records of Fire and Vegetation History from Solution Holes in the National Key Deer Refuge, Monroe County, Florida; \$14,100.
- 2008–2009 Carlos C. Campbell Memorial Fellowship, Great Smoky Mountains Conservation Association: Using Soil Charcoal as a Proxy for the Reconstruction of Fire Histories in Great Smoky Mountains National Park, USA; \$5000 (with C. Underwood).
- 2008–2009 University of Costa Rica and the University of Kansas Collaborative Research Program: Anthropogenic *Tierra Negra* and PreEuropean Food Production in Costa Rica; \$10,000 (with W. Woods and M. Sánchez; funds to UCR and Kansas to support collaborative research).
- 2008–2011 National Science Foundation (Geography and Spatial Science): Doctoral Dissertation Research: Interpreting Prehistoric Agriculture from Isotope and Pollen Indicators in Neotropical Lake Sediments: Do Multiple Cores Enhance Spatial Resolution?; \$11,388 (with Z. Taylor and D. Finkelstein; to support Z. Taylor's Ph.D. research).
- 2009–2010 United States Army Aviation and Missile Command: Similarity-Based Indexing and Search of Database of Correlation of Object Properties with Reference Properties; \$745,335. (with D. Birdwell, T. Wang, and D. Icove).
- 2010 Scholarly Activity Research Incentive Fund, University of Tennessee: grant for replacing laboratory centrifuges; \$4043.

- 2009–2011 National Science Foundation (Geography and Spatial Science): Doctoral Dissertation Research: Anthropogenic Impacts on Fire and Forest History in Native Yellow Pine and Mixed Hardwood-Pine Communities of the Southern Appalachians; \$10,550 (with C. Underwood, to support his Ph.D. research).
- 2009–2011 National Science Foundation (Geography and Spatial Science): Doctoral Dissertation Research: Holocene Climate and Environmental History of Laguna Saladilla, Dominican Republic;” \$12,000 (with M. Caffrey, to support her Ph.D. research).
- 2009–2011 U.S. Fish and Wildlife Service: Sedimentological and Dendrochronological Evidence of Fire History in the National Key Deer Refuge, Florida Keys, USA; \$61,853 (with H.Grissino-Mayer).
- 2009–2015 National Science Foundation (Paleo Perspectives on Climate Change ): Collaborative Research: Pleistocene-Holocene Climate Variability of the Southern Appalachian Region, Southeastern U.S; \$329,861 (with Z.-H. Li, in collaboration with S. Driese at Baylor University).
- 2010–2011 Office of Research, University of Tennessee: Organized Research Unit Funding for the Initiative for Quaternary Paleoclimate Research, \$60,000 (with L. McKay, Z.H. Li, D. Finkelstein, H. Grissino-Mayer, Y. Li, D. Anderson, and C.D. Hulsey).
- 2010–2012 National Science Foundation (Geography and Spatial Science): Doctoral Dissertation Research: Late Quaternary Paleoenvironments and Biota of Cuatro Ciénegas, Mexico; \$11,013 (with M. Valente, to support his Ph.D. research).
- 2011–2012 Office of Research, University of Tennessee: Organized Research Unit Funding for the Initiative for Quaternary Paleoclimate Research, \$51,600 (with L. McKay, Z.H. Li, H. Grissino-Mayer, Y. Li, D. Anderson, C.D. Hulsey, A. Classen, and G. Tootle).
- 2011–2014 National Science Foundation (Geography and Spatial Science and Population and Community Ecology): Collaborative Research: Late Quaternary Paleoenvironments of Cuatro Ciénegas, Mexico, a Hotspot of Endemism in North America; \$229,414 (in collaboration with T. Minckley at the University of Wyoming).
- 2012–2013 Office of Research, University of Tennessee: Organized Research Unit Funding for the Initiative for Quaternary Paleoclimate Research, \$55,000 (with L. McKay, M. Hren, H. Grissino-Mayer, Y. Li, D. Anderson, J. Simek, C.D. Hulsey, A. Classen, G. Tootle, and Z. Zhang).
- 2012–2015 National Science Foundation (Geography and Spatial Science): Establishing a Chronology of Late Quaternary Glacial Advances in the Tropical American Cordillera; \$200,000 (with Y. Li).
- 2012–2015 National Science Foundation (Paleo Perspectives on Climate Change): Research Experience for Undergraduates supplement to award #0822824, Collaborative Research: Pleistocene-Holocene Climate Variability of the Southern Appalachian Region, Southeastern U.S.; \$15,000 (with Z.-H. Li).
- 2013 Scholarly Activity Research Incentive Fund, University of Tennessee: grant for purchasing D tubes to store sediment cores; \$1920.
- 2013–2014 Office of Research, University of Tennessee: Organized Research Unit Funding for the Initiative for Quaternary Paleoclimate Research; \$40,000 (with L. McKay, H. Grissino-Mayer, Y. Li, D. Anderson, J. Simek, C.D. Hulsey, and A. Classen).
- 2014 Scholarly Activity Research Incentive Fund, University of Tennessee: grant for purchasing rotary evaporator for research on paleoclimate and paleoenvironments; \$6800.



2014–2015 United States Geological Survey: Storm Surge Modeling and Ecosystem Services at Cape Lookout National Seashore; \$18,000 (with M.A. Caffrey).

- 2014–2015 Tennessee Valley Authority: Paleocological Analysis of Sediments at the Highway 79 Henson Branch Histosol Site, Tennessee; \$12,000.
- 2015 Scholarly Activities Research Fund, University of Tennessee: Late Holocene Precipitation Variability in Costa Rica. Summer research assistantship to support graduate student Matthew Kerr; \$3600.
- 2015–2018 National Science Foundation (Geography and Spatial Science): Doctoral Dissertation Research: Fire, Vegetation and Environmental Interactions Across the Holocene on the U.S. Southeastern Coastal Plain; \$15,387 (with M. Boehm, to support his Ph.D. research).
- 2016 East Tennessee State University: Pollen Analysis at the Rock Creek Mortar Shelter, Tennessee; \$3457.
- 2016–2019 National Science Foundation (Division of Undergraduate Education): GP-IMPACT: Engagement of Students and Faculty at Community Colleges to Enhance Recruitment to 4-Year Geoscience Programs; \$415,988 (with L. McKay).
- 2016 Tennessee Valley Authority: Further Paleocological Analysis of Sediments From the Henson Branch Histosol Site, Tennessee, \$24,000.
- 2016–2017 Electric Power Research Institute: Paleoflood Investigations on the Upper Tennessee River, Modification 2; \$81,496 (with L. McKay and L. Tran).
- 2016–2017 College of Arts and Sciences, University of Tennessee: Women, Ecology and Conservation in a Changing World, funding for a seminar series from the Haines Morris Endowment; \$3000 (with J. Schweitzer and K. Sheldon).
- 2017–2018. Carlos C. Campbell Memorial Fellowship, Great Smoky Mountains Conservation Association: Holocene Vegetation and Fire History in Table Mountain Pine Stands in Great Smoky Mountains National Park; \$5000 (with C. Underwood).
- 2017 Experience Learning QEP, University of Tennessee: Adding a Fieldwork Experience of Authentic Research to a Biogeography Course; \$1194.
- 2017–2018 American Philosophical Society: Lake Sediments as Archives of Fire and Environmental History in a Belizean Pine Savanna; \$5000.
- 2017–2018 Mel Marcus Fund for Physical Geography, American Association of Geographers: Lake Sediment Coring with Graduate Students in the Savanna of Southern Belize; \$2000.
- 2017–2020 National Science Foundation (Geography and Spatial Science): Doctoral Dissertation Research: Holocene Precipitation Variability and its Relationship to Prehistoric Agriculture and Fires; \$15,819 (with M. Kerr, to support his Ph.D. research).
- 2017–2021 National Science Foundation (Geography and Spatial Science): Developing a Network of n-Alkane Hydrogen Isotope Records to Identify Drivers and Impacts of Holocene Droughts; \$343,783 (with C. Lane and D. Gamble).
- 2017–2019 Office of Research and Engagement, University of Tennessee, FUSION Award: Production and Movement of Fire Proxies (Charcoal and Organic Compounds) in Experimental Burns; \$10,000 (with J. Franklin, K. Hoyt, M. Schubert, T. Hazen, K. Carter, and L. Tran).

- 2017–2020 National Science Foundation (Geography and Spatial Science): Research Experience for Undergraduates supplement to award #1536287, Developing a Network of n-Alkane Hydrogen Isotope Records to Identify Drivers and Impacts of Holocene Droughts; \$7342 (with C. Lane and D. Gamble).
- 2017 Tennessee Valley Authority: Radiocarbon Dating of Paleoflood Deposits Near Watts Bar Dam, Meigs County, Tennessee; \$4983.
- 2017–2019 Electric Power Research Institute: Paleoflood Investigations on the Upper Tennessee River, Modification 3; \$95,679 (with L. McKay and L. Tran).
- 2018 Tennessee Valley Authority: Paleoclimate Proxies in Sediments from the Henson Branch Histosol Site, Tennessee; \$25,000.
- 2018–2019 East Tennessee State University: Pollen Analysis of Samples from the Rock Creek Mortar Shelter, Tennessee; \$1883.
- 2018–2020 Department of the Interior, National Park Service, Great Smoky Mountains National Park: Developing a Fire History for the Mesic, Eastern Portion of Great Smoky Mountains National Park, \$51,000.
- 2019–2020 Tennessee Water Resources Research Center, University of Tennessee: Flood History from Paleoflood Deposits in Cut Bank Soil Profiles in Chickamauga Reservoir, Tennessee River, U.S.A., \$4760 (with L. McKay and P. Perilla, to support her dissertation work).
- 2019 Office of Undergraduate Research, University of Tennessee: New Indicators of Climate and Environmental Change from Non-Pollen Palynomorphs in Lake Sediments, \$1750 to support undergraduate research.
- 2019 Office of Engagement and Outreach, University of Tennessee: Hands-on Study of Soils and Sediments with L&N Stem Academy Students, \$892.
- 2020 Teaching and Learning Innovation, University of Tennessee: Wading not Waiting in the Field: Purchasing Waders to Foster Inclusive, Experiential Outdoor Learning in Physical Geography Courses, \$990.
- 2020–2021 Department of the Interior, National Park Service, Great Smoky Mountains National Park: Developing a Fire History for the Mesic, Eastern Portion of Great Smoky Mountains National Park (Phase II), \$50,000.

**PROFESSIONAL MEMBERSHIPS:**

American Association of Geographers  
 Southeastern Division of the American Association of Geographers  
 American Association for the Advancement of Science  
 American Association of Stratigraphic Palynologists — The Palynological Society  
 Association for Fire Ecology

**PROFESSIONAL SERVICE:**

**Offices and Committees:**

Program Committee, Southeastern Division of the Association of American Geographers, 1988.  
 Board member, Biogeography Specialty Group, Association of American Geographers, 1988–1990.  
 1991 Honors Committee, Southeastern Division of the Association of American Geographers.

Research Grants Committee, Biogeography Specialty Group, Association of American Geographers, 1992.  
 1992 Honors Committee, Association of American Geographers.  
 Content Advisory Committee, National Geography Education Standards Project, 1992–1993.  
 Editorial Committee, *The Southeastern Geographer*, 1992–1995.  
 Chair, Biogeography Specialty Group, Association of American Geographers, 1993–1995.  
 National Academy of Sciences, Rediscovering Geography Committee, 1993–96.  
 Nominating Committee, Association of American Geographers, 1993–1994.  
 Board of Directors/Assembly of Delegates, Organization for Tropical Studies, 1994–2000.  
 Member, Advisory Committee for the La Selva Biological Station, 1994–1997.  
 Program Committee, Association of American Geographers, 1995.  
 Electorate Nominating Committee, Section on Geology and Geography, AAAS, 1998–2001.  
 External Review Committee, Department of Geography, University of Colorado, Boulder, 2000.  
 Program Committee, Southeastern Division of the Association of American Geographers, 2001.  
 Research Grants Committee, Biogeography Specialty Group, Association of American Geographers, 2002.  
 Honors Committee, Association of American Geographers, 2001–2003.  
 Editorial Board, *The Journal of Latin American Geography*, 2003–2008.  
 National Science Foundation, Proposal Review Panel, 2004  
 Research Grants Referee, Biogeography Specialty Group, Association of American Geographers, 2006.  
 National Science Foundation, Proposal Review Panel, 2005–2006  
 National Science Foundation, Proposal Review Panel, 2006  
 Scientific Advisory Committee, La Amistad Pacifica Conservation Area, Costa Rica, 2007–  
 National Science Foundation, Proposal Review Panel, 2010  
 National Science Foundation, Proposal Review Panel, 2012  
 Editorial Board, *The Southeastern Geographer*, 2011–2014  
 Editorial Board, *The AAG Review of Books*, 2013–  
 Scientific Advisory Board, *Cuadernos de Antropología* (University of Costa Rica), 2013–  
 Awards Committee, Paleoenvironmental Change Specialty Group, AAG, 2017–  
 National Science Foundation, Proposal Review Panel, 2017  
 National Science Foundation, Proposal Review Panel, 2018  
 National Science Foundation, Proposal Review Panel, 2020

#### **Professional Service Associated with Conferences and Workshops:**

Organizer and Chair, two paper sessions sponsored by the Biogeography Specialty Group on “Vegetation History” at the annual meeting of the Association of American Geographers, Baltimore, March 1989.  
 Organizer and Chair, paper session sponsored by the Biogeography Specialty Group on “Global Processes and Regional Linkages: Vegetation Disturbance and Change” at the annual meeting of the Association of American Geographers, Miami, April 1991.  
 Invited Panelist, special session on “Administrative Responses to Family Issues in Higher Education” at the annual meeting of the Southeastern Division of the Association of American Geographers, Columbia, South Carolina, November 1990.  
 Invited Participant, workshop on “Integrating History into Ecology” sponsored by The A.W. Mellon Foundation. Harvard Forest, January 1992.  
 Invited Participant, workshop on the “PEP [Pole-Equator-Pole] Paleoclimate Initiative” sponsored by NOAA and other agencies. Smithsonian Tropical Research Institution, Panama City, Panama, November 1993.  
 Invited Participant, workshop on “Reconstructing Global Climate Change Over the Past 2 Millennia from Anaerobic Sediments of the Eastern Pacific” sponsored by NOAA. San Francisco, April 1994.  
 Invited Participant, workshop on “Pollen Database for North America” sponsored by NOAA. Illinois State Museum, Springfield, November 1994. (Sent graduate student representative.)  
 Invited Participant, workshop on “PEP [Pole-Equator-Pole] I” sponsored by NOAA and other agencies. CIBNOR Laboratories, La Paz, Mexico, November 1995.  
 Invited Panelist, special session on “The Environment of Gender and Science: Women in Physical Geography,” annual meeting of the Association of American Geographers, Charlotte, North

Carolina, April 1996.

- Invited Participant, workshop on “Bringing Science to the Sites: Assessing the Integrity of Neotropical Ecosystems” sponsored by The Nature Conservancy and held in Herndon, Virginia, May 2001.
- Invited Participant, “Science Day 2001” sponsored by The Science Coalition and held in Washington, D.C., July 2001.
- Invited Participant, workshop on “The Ecological Role and Management of Fire in the Conservation of Tropical Pineland Ecosystems” sponsored by The Nature Conservancy, the Programme for Belize, and the USDA Forest Service and held in the Río Bravo Conservation and Management Area, Belize, May 2002.
- Organizer and Co-Chair, paper session sponsored by the Biogeography Specialty Group on “Paleorecords of Vegetation, Fire, and Climate in North and South America and the Caribbean” at the annual meeting of the Association of American Geographers, New Orleans, Louisiana, March 2003.
- Invited Participant, workshop on “El Manejo Integrado del Fuego en Ecosistemas Montanos de Latinoamérica” [Integrated Management of Fire in Montane Ecosystems of Latin America] sponsored by The Nature Conservancy, the Moscoso Puello Foundation, and the USDA Forest Service and held in Constanza, the Dominican Republic, March 2004.
- Organizer and Co-Chair, four paper sessions sponsored by the Biogeography Specialty Group on “Climate, Fire, and Human Impact Histories from Tropical Lake Sediments and Ice,” “Pleistocene and Holocene Paleoenvironments and Human Interactions: Evidence from Tropical and Temperate Lake Sediments, Soil Profiles; and Archaeology,” “Fire, Climate, and Biogeographical History in North America and Eurasia,” and “Paleoenvironments and Biogeographic History of the Rocky Mountain Region” at the annual meeting of the Association of American Geographers, Philadelphia, Pennsylvania, March 2004.
- Co-Organizer, with Catherine Yansa and Robert Dull, four paper sessions sponsored by the Biogeography Specialty Group on “Pollen and Charcoal Calibration and Analysis to Reconstruct Fire, Vegetation, and Agricultural History,” “Paleo Records of Climate, Geomorphic, and Vegetation Change from the American and African Tropics,” “Paleoecological Evidence of Prehistoric Human Activity in the Circum-Caribbean Region,” and “Late Quaternary Climate and Vegetation Change in Temperate North America” at the annual meeting of the Association of American Geographers, Denver, Colorado, March 2005.
- Invited Panelist, session on “Prehistory, Geoarchaeology, and Paleobiogeography: Prospects for Engagement and Synthesis” at the annual meeting of the Association of American Geographers, Denver, Colorado, April 2005.
- Invited Participant, workshop on “Introducción al Manejo Integrado del Fuego en la Zona de Amortiguamiento del Parque Internacional La Amistad, Costa Rica y Panamá” [Introduction to Integrated Fire Management in the Buffer Zone of La Amistad International Park, Costa Rica and Panama], sponsored by The Nature Conservancy and held in Buenos Aires, Costa Rica, January 2006.
- Invited Panelist, session on “Quaternary Paleoenvironments: Current Status and Future Directions” at the annual meeting of the Association of American Geographers, Chicago, Illinois, March 2006.
- Invited Panelist, session on “Teaching Biogeography” at the annual meeting of the Association of American Geographers, Chicago, Illinois, March 2006.
- Co-Organizer, with Jon Harbor, of illustrated poster session on “NSF GK-12 Programs in Geography and Geosciences,” at the annual meeting of the Association of American Geographers, San Francisco, California, April 2007.
- Invited Panelist, session on “Grants for Biogeographers: How to Successfully Fund Your Teaching and Research” at the annual meeting of the Association of American Geographers, San Francisco, California, April 2007.
- Invited Discussant, paper session on “GK-12 Programs in Geography: Inspiring Transformation in K–12 and Graduate Education” at the annual meeting of the Association of American Geographers, Boston, Massachusetts, April 2008.

Organizer and Chair, panel session on “What is an NSF GK-12 Grant and How Would Getting One Help Me and My Department?” at the annual meeting of the Association of American Geographers, Las Vegas, Nevada, April 2009.

Invited Panelist, session on “How to Perform Interdisciplinary Paleoenvironmental Research” at the annual meeting of the Association of American Geographers, Las Vegas, Nevada, April 2009.

Invited Panelist, session on “Progress in Physical Geography: Challenges and Opportunities from Earth System Science” at the annual meeting of the Association of American Geographers, Las Vegas, Nevada, April 2009.

Invited Panelist, session on “Biogeography in the Field: A Panel Discussion for Grad Students and Early Career Biogeographers” at the annual meeting of the Association of American Geographers, Las Vegas, Nevada, April 2009.

Invited Panelist, session on “Student Issues and Concerns” at the annual meeting of the Southeastern Division of the Association of American Geographers, Knoxville, TN, November 2009.

Organizer and Chair, illustrated paper session on “Broader Impacts: Sharing Our Science and Research with K-12 Teachers and Students” at the annual meeting of the Association of American Geographers, Washington D.C., April 2010.

Invited Panelist, session on “Progress in Physical Geography Classics Revisited: Climate Change and Its Consequences” at the annual meeting of the Association of American Geographers, Seattle, Washington, April 2011.

Co-Organizer and Chair, panel session on “NSF IGERT, GK-12, REU, and GDEP Grants: Strategies for Successful Proposals and Projects That Can Boost Your Research and Strengthen Your Department” at the annual meeting of the Association of American Geographers, Seattle, Washington, April 2011.

Co-Organizer, with Henri Grissino-Mayer, of a panel session on “Teaching Tree Rings: Ideas for K–12 Outreach and Undergraduate Education” for the annual meeting of the Association of American Geographers, Seattle, Washington, April 2011.

Invited Panelist, session on “Leadership in Geography and Geography Outreach (in Honor of Sidney Jumper)” at the annual meeting of the Southeastern Division of the Association of American Geographers, Asheville, North Carolina, November 2012.

Invited Panelist, session on “Women in Geography Across the Sub-Disciplines” at the annual meeting of the Association of American Geographers, Los Angeles, California, March 2013.

Co-Organizer, with Catherine Yansa and Michelle Goman, of five paper sessions co-sponsored by the Paleoenvironmental Change and Biogeography Specialty Groups, on “Paleorecords of Our Changing Earth” for the annual meeting of the Association of American Geographers, Los Angeles, California, March 2013.

Co-Organizer, with Matthew Kerr, and Chair of a panel session on “Involving Undergraduate Students in Field and Laboratory Research” for the annual meeting of the Southeastern Division of the Association of American Geographer, Roanoke, Virginia, November 2013.

Co-Organizer, with Catherine Yansa and Michelle Goman, of six “Paleorecords” paper session co-sponsored by the Paleoenvironmental Change, Biogeography, and Climate Specialty Groups for the annual meeting of the Association of American Geographers, Tampa, Florida, April 2014.

Invited Panelist, session on “Conducting Interdisciplinary Research in Biogeography: Practicalities and Pitfalls” at the annual meeting of the Association of American Geographers, Tampa, Florida, April 2014.

Co-Organizer, with David Porinchu, of two paper sessions on “Environmental History from Natural Archives” for the annual meeting of the Southeastern Division of the Association of American Geographers, Athens, Georgia, November 2014.

Invited Panelist, session on “Past and Present Environmental Science of the Neotropics and Beyond” at the annual meeting of the Association of American Geographers, Chicago, Illinois, April 2015.

Invited Panelist, session on “How to Navigate the Job Market: Advice on Tactics and Strategy for Academic and Non-Academic Jobs” at the annual meeting of the American Association of Geographers, San Francisco, California, March 2016.

Discussant, plenary synthesis session on “Researching and Teaching the ‘Anthropocene,’” at the annual

- meeting of the American Association of Geographers, San Francisco, California, March 2016.
- Co-Organizer, with Matthew Kerr, and Chair of a panel session on “When Graduate Students Teach: Tips and Strategies to Help You Succeed” for the annual meeting of the Southeastern Division of the American Association of Geographers, Columbia, South Carolina, November 2016.
- Co-Organizer, with Maureen Sanchez, of a symposium on “Análisis de Isótopos Estables y Arqueología: Una Valoración de su Aplicación en Reconstrucciones Paleoalimenticias y Paleoclimáticas” [Stable Isotope Analysis and Arqueology: An Assessment of its Application in the Reconstruction of Paleodiets and Paleoclimate] for the XI Congreso de la Red Centroamericana de Antropología [XI Congress of the Central American Anthropology Network], February–March 2017.
- Discussant, session on “Developing Innovative Broader Impacts in for Proposals Submitted to the National Science Foundation” at the annual meeting of the American Association of Geographers, Boston, Massachusetts, April 2017.
- Co-Organizer, with Lisa Davis, of three paper sessions on “Past Perspectives on River Environments” for the annual meeting of the American Association of Geographers, New Orleans, Louisiana, April 2018.
- Organizer of a paper session on “Paleoenvironments of the Southeastern U.S. and Circum-Caribbean” for the annual meeting of the Southeastern Division of the Association of American Geographers, November 2018, Johnson City, Tennessee.
- Organizer of a panel session on “Involving Undergraduates in Geoscience Research” for the annual meeting of the Southeastern Division of the American Association of Geographers, November 2019, Wilmington, North Carolina.
- Organizer of two papers sessions on “North American Landscapes Through Time: Environmental and Human History from Natural Archives” for the annual meeting of the American Association of Geographers, 2021 (virtual).

#### **Grant Proposal Reviewer:**

National Geographic Society; NSF (Geography and Spatial Science, Climate Dynamics, Geosciences, Paleoclimate, and Ecology programs); NOAA (Office of Global Programs); Natural Environment Research Council (UK); USIA Fulbright Senior Scholar Program; National Academy of Sciences; Organization for Tropical Studies; Smithsonian Institution.

#### **Manuscript Reviewer:**

Journals: *Science, Journal of Vegetation Science, Biotropica, Ecology, Journal of Tropical Ecology, Annals of the Association of American Geographers, The Professional Geographer, Southeastern Geographer, Physical Geography, Journal of Applied Ecology, Canadian Journal of Forestry Research, Journal of Biogeography, Global Biogeography and Ecology Letters, The Holocene, Open Quaternary, Quaternary Science Reviews, Quaternary Research, Quaternary International, Brenesia, Revista de Biología Tropical, National Geographic Research and Exploration, Journal of Archaeological Science, Journal of Vegetation History and Archaeobotany, Palaeogeography, Palaeoecology, Palaeoclimatology, Journal of the Torrey Botanical Society, Journal of Paleolimnology, Proceedings of the Ocean Drilling Program, Annals of Glaciology, Palynology, PLOS ONE, Palaeobiodiversity and Palaeoenvironments, Nature Geosciences, Plant Ecology, Ecological Indicators, Global and Planetary Change.*

Presses: Harper Collins, Yale University Press, Springer-Verlag, Edward Arnold, the California Academy of Sciences, the USDA Forest Service, Random House, Wiley, Oxford.

#### **SERVICE TO THE UNIVERSITY OF TENNESSEE:**

Natural Sciences Divisional Curriculum Committee, 1987–present.  
 Faculty Search Committee, Ecology and Geological Sciences, 1989.  
 Executive Committee, Latin American Studies Program, 1990–1992.  
 Coordinator, Latin American Studies Institute Colloquy, 1990–1992.



Alumni Memorial Building Space Renovation Committee, 1992–1993.  
 Faculty Search Committee, Botany and Ecology, 1994–1995.  
 Faculty Search Committee, Gore Chair in Environmental Science, 1994–96.  
 Panel Chair, Professional Development Award Program, 1994.  
 University Representative to the Organization for Tropical Studies, 1994–2000.  
 Panel Chair, Professional Leave Program, 1996.  
 Cartographic Information Center Task Force, 1997.  
 Member, Burchfiel Geography Building Space Planning Committee, 1997–2000.  
 Member, APEC Committee on Environment, Special Preservation, and Natural Resources, 1998–1999.  
 Chair, Faculty Search Committee, Department of Geography, 1999–2000.  
 Library Representative, 2000–present.  
 Panel Member, Panel Discussion on Tenure and Promotion, UT Association of Women Faculty, 2001.  
 Panel Member, Women in Science Conference, UT Graduate Women in Biology, 2002.  
 Faculty Search Committee, Ecology and Evolutionary Biology, 2004–2005.  
 Advisory Board, Institute for a Secure and Sustainable Environment, 2005–2006  
 Board of Advisors, Frank H. McClung Museum, 2005–2008  
 Member, College AAAS Nominating Committee, 2008–2010  
 Graduation Speaker, Spring 2009 Graduate Hooding Ceremony  
 Member, Governor’s Chair Committee, 2010  
 Director, Initiative for Quaternary Paleoclimate Research, 2010–  
 Member, University AAAS Nominating Committee, 2011–2012  
 Member, College Review Committee for Department Head Reappointment, 2012.  
 Member, University of Tennessee Big Orange Family Campaign, 2014.  
 Member, Teaching Evaluation Team for faculty member in Ecology and Evolutionary Biology, 2014.  
 Member, Search Committee for faculty position in Ecology and Evolutionary Biology, 2014–2015.  
 Vice President, Phi Beta Kappa of Tennessee, 2016–2018.  
 Member, Committee to Review College of Arts and Sciences Award Nominations, 2016.  
 Member, Teaching Evaluation Team for faculty member in Ecology and Evolutionary Biology, 2014.  
 Member, Search Committee for Associate Vice Chancellor for Research, 2016.  
 Member, Office of Sponsored Programs Career Path Review Committee, 2017.  
 President, Phi Beta Kappa of Tennessee, 2018–2020.  
 Member, Committee to Review Chancellor’s Award Applicants, 2019.  
 Reviewer, College Awards, 2019.  
 Coordinator for College Mentoring Matrix, 2019–2020.

## **COURSES TAUGHT:**

### **University of Tennessee**

Introductory Physical Geography  
 Honors Introductory Physical Geography  
 Biogeography  
 Plants, People, and Climate in North America  
 Global Environments of the Quaternary  
 Vegetation Analysis (as Topics in Biogeography offering)  
 Climatology  
 Proseminar (co-taught with T. Bell)  
 Topics in Biogeography  
 Seminar in Biogeography  
 Pollen and Other Microfossils in Quaternary Research  
 Grant Proposal Writing in Geography  
 Introduction to Geographical Research  
 Seminar on Teaching Earth Science  
 Seminar in Physical Geography  
 Seminar in Geography  
 Environmental History from Lake Sediments

## University of California, Berkeley

Seminar on the Teaching of Geography  
The Humid Tropics: People and Environments  
Introductory Physical Geography

### Other Teaching

Lecturer, International Training Course, "Manejo Para Desarrollo Sostenible de los Recursos Naturales y la Protección Medio Ambiental," College of Agriculture, University of Tennessee, 1996.  
Visiting Geographer, Sumner Academy, Nashville, Tennessee, 1996–97.  
Visiting Professor, Organization for Tropical Studies Semester Abroad Program, Costa Rica, 1998.  
Instructor, Tennessee Geographic Alliance Field Workshop in the Dominican Republic, 1998.  
Lecturer, Tennessee Geographic Alliance Workshop on Global Environmental Change, 1999.  
Visiting Professor, Laboratory of Archaeology, University of Costa Rica, 2005.  
Visiting Professor, School of Geography, University of Costa Rica, 2011.  
Visiting Professor, School of Geographical Sciences, National University of Costa Rica, 2018.

## STUDENT COMMITTEES AT THE UNIVERSITY OF TENNESSEE (\* denotes Committee Chair)

### Department of Geography

Baird, Jr., Douglas D. Wedge Failures in the Blue Ridge Province of East Tennessee: A Case Study of Hartford Area Slides. M.S. thesis, August 1990.

Mitchell, Michael S. International Assistance and Organizational Development: Constraints on Nature Conservation in Belize. M.S. thesis, December 1990.

\* Schiller, Andrew. Wildlife Conservation in Urban Greenways of the Mid-southeastern United States. M.S. thesis, December 1991.

Leary, Maria C. The Effects of Abandoned Coal Mines on Stream Water Chemistry in Big South Fork National River and Recreation Area, Tennessee and Kentucky. M.S. thesis, December 1991.

Thomasson, David. The Social Ecology of Kitchen Gardens on Montserrat, West Indies. M.S. thesis, August 1992.

\* McSweeney, Kendra. Human Interaction with the Cohune Palm (*Orobignya cohune*) in the Palm Landscape of Belize. M.S. thesis, May 1993.

\* Daly, Michael. Identification of Temperate Rainforest Environments in the Southern Appalachian Region. M.S. thesis, December 1993.

\* Northrop, Lisa. PreColumbian Agriculture, Fires, and Vegetation Dynamics in a Lowland Rainforest: Paleoecological Evidence from Laguna Bonilla and Laguna Bonillita, Costa Rica. M.S. thesis, May 1994.

\* Yankee, Dennis. Predictive Modeling of Forest Stand Composition and Distribution Using GIS and Ecological Land Classification: a Test in the Clinch-Powell Watershed of Tennessee. M.S. thesis, May 1995.

Matthews, Louise. Patterns of Land Degradation and Restoration in the Copper Basin, Tennessee, and Their Influence on Soil Hydrologic Properties. M.S. thesis, May 1995.

Cain, Douglas. A Multivariate Analysis of Metrics Describing Landscape Pattern and Structure. M.S. thesis, August 1995.

Wallin, Thomas. Quantifying Trail-related Soil Erosion at Two Sites in the Humid Tropics: Jatun Sacha, Ecuador, and La Selva, Costa Rica. M.S. thesis, May 1995.

- \* Lafon, Charles. Fifty Years of Succession on the Oak Ridge Reservation, Tennessee: the Influence of Post-abandonment Land Use on Vegetation Development. M.S. thesis, August 1995.
- \* Gray, Edward. The Late Holocene History of a Lowland Rainforest, Laguna Hule, Costa Rica. Non-thesis M.S. project, August 1995.
- Glawson, Gailya. Flood Potential of Streams Along the Eastern Escarpment of the Cumberland Plateau. Ph.D. dissertation, January 1996.
- Nabors, Pamela. The Current Status and Potential Spread of an Invasive Exotic Species: Chinese Yam (*Dioscorea batatas*) in the Great Smoky Mountains National Park. M.S. thesis, May 1996.
- Casey, Matt. Throughfall in a Forestry Plantation at the La Selva Biological Station, Costa Rica. M.S. thesis, August 1996.
- \* Pilarski, Kim. An Ecological Assessment of Wetland Mitigation Projects in East Tennessee. M.S. thesis, December 1996.
- Buhi, Chris. A Survey of Soil Hydraulic Properties in Two Different Tropical Rainforests. M.S. thesis, May 1997.
- Royall, P. Daniel. Lake-Sediment-Based Evaluation of Sediment Yield and Dynamics, Crooked Run Drainage Basin, Virginia. Ph.D. dissertation, May 1997.
- Hyman, Glenn. Sediment Transfer in the Río Pacuare Watershed and Neighboring Basins of Costa Rica. Ph.D. dissertation, August 1997.
- \* Kennedy, Lisa. Prehistoric Agriculture, Fires, and Droughts at the La Selva Biological Station, Costa Rica: Paleoecological Evidence from the Cantarrana Swamp. M.S. thesis, May 1998.
- \* League, Brandon. Sedimentary Charcoal, Magnetic Susceptibility, and Páramo Fires in Chirripó National Park, Costa Rica. Undergraduate Honors thesis, May 1998.
- \* Clement, Rachel. 3000 Years of Human-Vegetation Interaction near the Las Cruces Biological Station in Southwestern Costa Rica: Paleoecological Evidence from Laguna Zoncho. M.S. thesis, May 1999.
- Berry, Victoria. Origin of Medicinal Plants and Knowledge of Their Use, Montserrat, West Indies. Ph.D. dissertation, December 1999.
- \* Lafon, Charles W. Patterns and Consequences of Ice Storms in Forested Appalachian Landscapes. Ph.D. dissertation, August 2000.
- Hart, Evan. Woody Debris, Channel Morphology, and Sediment Storage Along Headwater Streams in Great Smoky Mountains National Park, Tennessee-North Carolina. Ph.D. dissertation, August 2000.
- \* Arford, Martin. Late Holocene Environmental History and Tephrostratigraphy in Northwestern Costa Rica: A 4000 Year Record From Lago Cote. M.S. thesis, August 2001.
- Krstolic, Jennifer. A Comparative Study of Freshwater Mussel Habitat Along the Clinch River, Tennessee and Virginia, USA: Hydraulic Factors and their Influences. M.S. thesis, December 2001.
- Speer, James. Oak Mast History from Dendrochronology: A New Technique Demonstrated in the Southern Appalachian Region. Ph.D. dissertation, December 2001.

- Tankersley, Roger. Geography of Stopover Habitats and Migratory Pathways for Neotropical Migratory Forest Birds in the Eastern United States. Ph.D. dissertation, May 2002.
- Armbrister, Michael. Changes in Fire Regimes and the Successional Status of Table Mountain Pine (*Pinus pungens* Lamb.) in the Southern Appalachians, U.S.A. M.S. thesis, May 2002.
- \* Anchukaitis, Kevin. A 2000-year History of Forest Disturbance in Southern Pacific Costa Rica: Pollen, Spore, and Charcoal Evidence from Laguna Santa Elena. M.S. thesis, May 2002.
- \* Brown, Roger W. Paleoecological Evidence of Pre-Contact Human Impacts on Fire and Vegetation in Northern New York State, U.S.A. Ph.D. dissertation, May 2002.
- \* Raia, Kim. Effects of Beaver Browsing on Riparian Forests Along Six Beaver Ponds in the Upper Tennessee River Basin. Non-thesis M.S. project, June 2002.
- \* Lane, Chad. The Paleoecological Significance of Stable Carbon Isotopes in Lake Sediments from the Chirripó Páramo of Costa Rica. M.S. thesis, April 2003 (Co-Chair with Claudia Mora, Department of Geological Sciences).
- Cseke, Jacob. A Dendroecological Approach for Dating Individual Small-scale Canopy Disturbance Events, Great Smoky Mountains National Park, Tennessee, USA. M.S. thesis, April 2003.
- \* League, Brandon. Patterns of Recent Charcoal Accumulation in Sediments of a Glacial Lake in the Páramo of Parque Nacional Chirripó, Costa Rica. M.S. thesis, May 2003.
- Lewis, Daniel. Fire Regimes of Forested Kipukas in El Malpais National Monument, New Mexico, USA. M.S. thesis, August 2003.
- Crider, Kimberly. Effects of Pine-Hardwood Management Practices on Forest Regeneration and Woody Species Diversity at the Savannah River Site, South Carolina, USA. M.S. Thesis, August 2003.
- \* Kennedy, Lisa. Fire and Forest in the Highlands of the Dominican Republic: Modern Dynamics and Long-term History. Ph.D. dissertation, December 2003.
- Atchley, Elizabeth. The Effects of Habitat Alterations on Growth and Vitality of *Torreya taxifolia* Arn. in Northern Florida, USA: A Dendroecological Study. M.S. thesis, May 2004.
- Dye, Andrew. Developing GIS-based Habitat Suitability Models: An example from Great Smoky Mountains National Park, Tennessee and North Carolina, USA, featuring the land snail *Vitrinizonites latissimus* Lewis. M.S. thesis, May 2004.
- \* Schlachter, Kyle. Macroscopic Sedimentary Charcoal as a Proxy for Past Fire in Northwestern Costa Rica. M.S. thesis, May 2005.
- \* Taylor, Zachary. Environmental History at Laguna Yaguarú, Bolivia: Evidence from Pollen, Stable Carbon Isotopes, and an Embedded Mineral Facies. M.S. thesis, May 2005 (Co-Chair with Claudia Mora, Department of Earth and Planetary Sciences).
- \* Brogden, Jessica. Mineral Silt in Lake Sediments as an Indicator of Pre-Hispanic Soil Erosion in Northwestern Costa Rica. Undergraduate Honors thesis, May 2005. (Co-Chair with Ken Orvis).
- Larson, Evan. Spatiotemporal Variations in Fire Regimes of Whitebark Pine (*Pinus albicaulis* Engelm.) Forests, Western Montana, USA, and their Management Implications. M.S. thesis, December 2005.

- \* Stork, Allison. A Paleocological History of West Pond on Great Abaco Island, The Bahamas, Based on Pollen and Charcoal Analyses of Lake Sediments. M.S. thesis, May 2006.
  - \* Slayton, Ian. An Investigation of the Diet of Baird's Tapir (*Tapirus bairdii*) in the Chirripó Páramo of Costa Rica. Undergraduate Honors thesis, August 2006.
  - \* Albritton, Joshua. Fire History in Lower Montane and Montane Rainforests in Chirripó National Park, Costa Rica. Undergraduate Honors thesis, December 2006.
  - \* Lane, Chad. Late Holocene Environmental History in the Northeastern Caribbean: Multi-proxy Evidence from Two Small Lakes on the Southern Slope of the Cordillera Central, Dominican Republic. Ph.D. dissertation, May 2007 (Co-Chair with Claudia Mora, Department of Earth and Planetary Sciences).
- Hart, Justin. A Multi-scale Analysis of Disturbance Dynamics in Hardwood Forest Communities on the Cumberland Plateau. Ph.D. dissertation, May 2007.
- West, Dave. Late Holocene Charcoal Stratigraphy and Modern Charcoal Deposition in the Pine Rocklands of Great Abaco Island, The Bahamas. M.S. thesis, May 2007.
- Miller, Alison. Fire History of Caribbean Pine (*Pinus caribaea* var. *bahamensis* (Griseb.) W.H. Barrett & Golfari) Forests on Abaco Island, the Bahamas. Non-thesis M.S. project, May 2007.
- \* Thomason, John. Ostracods and Charophytes in Lake Sediments from Las Lagunas, Dominican Republic. Undergraduate Honors thesis, May 2007.
  - \* Arford, Martin. Middle to Late Holocene Environmental Change and Human Impacts in Seasonal Tropical Forests of Northwestern Costa Rica: Sedimentary Evidence from Six Lakes. Ph.D. dissertation, August 2007.
- DeWeese, Georgina. Past Fire Regimes of Table Mountain Pine (*Pinus pungens* Lamb) Stands in the Central Appalachian Mountains, Virginia, U.S.A. Ph.D. dissertation, August 2007.
- Mann, David. Treeline Responses to Climate Change in High-Elevation Landscapes of Western Montana, U.S.A.. Ph.D. dissertation, January 2008.
- \* Graham, Jason. Holocene Fire History at Laguna Martínez, Costa Rica, Based on High-Resolution Macroscopic Charcoal Analysis of an 8400 cal yr BP Sediment Record. M.S. thesis, August 2008.
- Remus, Brock. Testing the Usefulness of Pine Stomata as a Proxy in Lake Sediment Cores from Low-latitude Environments. M.S. thesis, August 2008.
- Van de Gevel-Edidin, Saskia. Landscape-Level Dynamics in an Endangered Mountain Ecosystem, Northern Rocky Mountains, U.S.A. Ph.D. dissertation, August 2008.
- \* Hass, Alisa. Fire History in the Southern Appalachian Region, USA, from Sedimentary Charcoal. M.S. thesis, December 2008.
  - \* Burgess, Joe. Modern Pollen Assemblages Along Transects Across Two Lowland Tropical Lakes. Non-thesis M.S. project, May 2009.
- Biermann, Christine. Twentieth Century Changes in the Climate Response of Yellow Pines in Great Smoky Mountains National Park, Tennessee, U.S.A. M.S. thesis, August 2009.

- \* Albritton, Joshua. A 1700-year History of Fire and Vegetation in Pine Rocklands of National Key Deer Refuge, Big Pine Key, Florida: Charcoal and Pollen Evidence from Key Deer Pond. M.S. thesis, December 2009.
  
- Deane, Sarah. Quartz Grain Microtextures and Sediment Provenance: Using Scanning Electron Microscopy to Characterize Tropical Highland Sediments from Costa Rica and the Dominican Republic. M.S. thesis, December 2009.
  
- Feathers, Ian. Fire History from Dendrochronological Analyses at Two Sites near Cades Cove, Great Smoky Mountains National Park, U.S.A. M.S. thesis, May 2010.
  
- \* Malik, Jeff. A Long Term Fire History from Sedimentary Charcoal in a Small Wetland on Big Pine Key, Florida, USA. Undergraduate Honors thesis, May 2010.
  
- Rother, Monica. Influences of Climate and Anthropogenic Disturbances on Wildfire Regimes of the Zuni Mountains, New Mexico, U.S.A. M.S. thesis, August 2010.
  
- \* Slayton, Ian. A Vegetation History from Emerald Pond, Great Abaco Island, The Bahamas, Based on Pollen Analysis. M.S. thesis, December 2010.
  
- Slayton, Jessica. Separating the Effects of Wildfires from Climate in Growth of Ponderosa Pine (*Pinus ponderosa* Douglas ex. C. Lawson), Central Idaho, U.S.A. M.S. thesis, December 2010.
  
- Li, Yanan. Dendroclimatic Analysis of Climate Oscillations for the Southeastern United States from Tree-Ring Network Data. M.S. thesis, May 2011.
  
- \* Watson, Brian. An Investigation of Stratigraphic Evidence for an Abrupt Climatic Event 8200 yr BP in Valle de las Morrenas, Costa Rica. M.S. thesis, May 2011.
  
- \* Caffrey, Maria. Holocene Climate and Environmental History of Laguna Saladilla, Dominican Republic. Ph.D. dissertation, May 2011.
  
- \* Taylor, Zachary P. Spatial Variation in Organic Carbon and Stable Isotope Composition of Lake Sediments at Laguna Zoncho, Costa Rica. Ph.D. dissertation, May 2011 (Co-Chair with David Finkelstein, Department of Earth and Planetary Sciences).
  
- Sakulich, John. A Dendrochronological Approach for Analyzing the Geographic Range Structure of Tree Species. Ph.D. dissertation, May 2011.
  
- \* Schoen, Alice. An 8000-year Sediment Record of Vegetation and Environmental History from Laguna Tortuguero, Puerto Rico. M.S. thesis, August 2011.
  
- Spond, Mark. Forest Dynamics in Malpais National Monument, Arizona: Evidence from Stand Structure and Repeat Photography. Ph.D. dissertation, December 2011.
  
- Harley, Grant. Tree Growth Dynamics, Fire History, and Fire-Climate Relationships in Pine Rocklands of the Florida Keys, U.S.A. Ph.D. dissertation, May 2012.
  
- \* Kocis, Desiree. Reconstruction of Fire History in the National Key Deer Refuge, Monroe County, Florida, U.S.A.: The Palmetto Pond Macroscopic Charcoal Record. M.S. thesis, May 2012.
  
- Pilote, Alex. Interacting Effects of Fire Activity, Climate, and Habitat Diversity on Forest Dynamics, El Malpais National Monument, New Mexico, USA. M.S. thesis, May 2012.
  
- LaForest, Lisa. Fire-Regimes of Lower-elevation Forests in Great Smoky Mountains National Park, Tennessee, U.S.A. Ph.D. dissertation, August 2012.
  
- \* Boehm, Mathew. Late Pleistocene Climate, Vegetation, and Fire History from a Southern

- Appalachian Bog, Whiteoak Bottoms, Nantahala National Forest, North Carolina, USA. M.S. thesis, December 2012.
- \* Underwood, Christopher. Fire and Forest History from Soil Charcoal in Yellow Pine and Mixed Hardwood-Pine Forests of the Southern Appalachian Mountains, U.S.A. Ph.D. dissertation, May 2013.
  - \* Eads, John. Macroscopic Charcoal as Evidence of Long-Term Fire History in the Cuatro Ciénegas Valley, Mexico. M.S. thesis, May 2013.
- Garland, Niki. A Dendroecological Evaluation of the Effects of Coal Ash on Tree Growth, Kingston Fossil Plant, Harriman, Tennessee, U.S.A. M.S. thesis, May 2013.
- Dye, Alex. Stand Dynamics and Fire History of a Southern Appalachian Pine-Hardwood Forest on Rainy Mountain, Chattahoochee National Forest, Georgia, U.S.A. M.S. thesis, May 2013.
- \* Kerr, Matthew. Stable Isotope Analysis of Lake Sediments from Laguna Santa Elena and Laguna Azul, Costa Rica. M.S. thesis, May 2014.
- Schneider, Elizabeth. Low-Frequency Climate Drivers of Wildfire Activity, Magdalena Mountains, New Mexico. M.S. thesis, August 2014.
- \* Lemieux, Paul. Pollen Analysis of Speleothems from Caves in the Eastern U.S. Undergraduate Honors thesis, August 2014.
- Rochner, Maegen. Dendrogeomorphic Analysis of Debris Slides on Mount Le Conte, Great Smoky Mountains National Park, Tennessee, U.S.A. M.S. thesis, December 2014.
- Collins, Savannah. Detecting Tropical Cyclone Signals in Tree Rings of Longleaf Pine (*Pinus palustris* Mill.), Valdosta, Georgia, U.S.A. M.S. Thesis, The University of Tennessee, Knoxville. 115 pp. M.S. thesis, December 2014.
- McKnight, Julie. Linking Soil Moisture and Carbon-Cycle Processes in Two Understudied Terrestrial Ecosystems: Ecuadorian Páramo Grasslands and Constructed Agricultural Wetlands. Ph.D. dissertation, May 2015.
- Wayman, Sarah. Stand Dynamics of a Unique Pygmy Forest, El Malpais National Monument, New Mexico, U.S.A. M.S. thesis, May 2015.
- \* Ballard, Joanne. Evidence of Late Quaternary Fires from Charcoal and Siliceous Aggregates in Lake Sediments in the Eastern U.S.A. Ph.D. dissertation, August 2015.
- Potter, Rebecca. Establishing a Chronology of Late Quaternary Glacial Advances in the Cordillera de Talamanca, Costa Rica. M.S. thesis, August 2015.
- Alsamadisi, Adam. Human and Black Bear Interactions in Buncombe County, North Carolina, from 1993–2013. M.S. thesis, August 2015.
- Brown, Vincent. Establishing a Tennessee Tornado Climatology: A Risk and Vulnerability Analysis of Tornadoes Across the State of Tennessee. M.S. thesis, May 2016
- Ingram, Allison. Testing the Temporal Stability of the Climate Response in Tree Species at Norris Dam State Park, Tennessee, U.S.A. M.S. thesis, August 2016.
- Stachowiak, Lauren. Using Spatial Analysis to Evaluate Fire Activity in a Pine Rockland Ecosystem, Big Pine Key, Florida, U.S.A. Ph.D. dissertation, August 2016.
- \* Johanson, Erik. Reconstructing Late Holocene Fire, Agriculture, and Climate from Sediment

Records in Costa Rica and the Dominican Republic. Ph.D. dissertation, December 2016.



- \* Cecil, Jacob. Reconstructing Fire History from Sedimentary Charcoal in a Small Wetland Within the Quebrada Estero Watershed, Costa Rica. Undergraduate Honors thesis, May 2017. (Co-Chair with Dr. Erik Johanson)
- \* Blentlinger, L.R. Hydrogen Isotope Analysis of n-Alkanes in Sediments from Emerald Pond, Abaco Island, The Bahamas. Undergraduate Honors thesis, December 2018.
- Hass, Alisa. A Mixed-Methods Approach to Assessing Factors Contributing to Exposure at the Neighborhood- and Individual-Levels in Knoxville, Tennessee. Ph.D. dissertation, May 2019.
- \* Rochner, Maegen. Tree-Ring Evidence of Climate and Environmental Change, Beartooth Mountains, Wyoming, U.S.A. Ph.D. dissertation, May 2019 (Co-Chair with Dr. Matthew Bekker, Department of Geography, Brigham Young University).
- \* MacLennan, Elizabeth. Holocene Climate Variability in Hispaniola: Sedimentary Alkane and Isotopic Evidence of Precipitation during the Terminal Classic Drought. M.S. thesis, May 2019.
- \* Kerr, Matthew. Holocene Precipitation Dynamics in Costa Rica Inferred from Hydrogen Isotope Analyses of Lake Sediment Profiles. Ph.D. dissertation, August 2019.
- \* Cecil, Jacob. A Multi-proxy Record of Paleoenvironmental Change for a Southern Belizean Pine Savanna. M.S. thesis, May 2020.
- Alsamadisi, Adam. Habitat and Species Distribution Modeling for the Red Cockaded Woodpecker. Ph.D. dissertation, May 2020.
- Fritz, Bridgette. Detecting Sinkholes with Potential for Deposit of Paleoflood Sediments in the Upper Tennessee River Basin. M.S. thesis, May 2020.
- \* Boehm, Mathew. Fire-Vegetation-Climate Interactions Across the Holocene on the U.S. Southeastern Coastal Plain. Ph.D. dissertation, December 2020.
- Burow, Daniel. Hazardous Weather Climatology and Human Response in the Southeastern United States. Ph.D. dissertation, May 2021.
- Smith, Laura. Hydroclimate from Tree Rings in the Tennessee Valley: Reinitiating Historic TVA Research, Examining the Complex Climate Growth Relationships of *Juniperus virginiana*, and Exploring Reconstruction Modeling Techniques. Ph.D. dissertation, in progress.
- \* Blentlinger, Luke. "The Environmental History of Savannas in Central America: How Fire and Climate have Interacted to Produce the Modern Savannas of Southern Belize and The El General Valley of Costa Rica. M.S. thesis, in progress.
- \* Crain, Jared. A New Classification of Microscopic Charcoal Morphology as an Indicator of Fuel Type Applied to Charcoal Records from Two Lakes in Southern Pacific Costa Rica. M.S. thesis, in progress.
- \* Wright, Wesleigh. Non-pollen Palynomorphs in Lake-Sediment Cores from Southern Pacific Costa Rica. Undergraduate Honors thesis, in progress.
- Hudson, MonTré. M.S. thesis, topic to be determined.
- Nicholas Grondin. Ph.D. dissertation, topic to be determined.
- \* Alumbaugh, Jamie. Ph.D. dissertation, topic to be determined.

- \* Collins-Key, Savannah. Ph.D. dissertation, topic to be determined. (Co-Chair with Dr. Matthew Bekker, Department of Geography, Brigham Young University).

#### **Department of Earth and Planetary Sciences:**

Stiles, Cynthia. Pedogenic Relationships in a Texas Vertisol Climosequence Defined by Geochemical Mass Balance of Whole Soil and Chemistry of Iron-Manganese Nodules. Ph.D. dissertation, August 2001.

Kocis, James. Late Pleistocene and Holocene Hydroclimate Change in the Southeastern United States: Sedimentary, Pedogenic, and Stable Carbon Isotope Evidence in Tennessee River Floodplain Paleosols. M.S. thesis, December 2011.

Carr, Megan. Quantitative Integration of Multiple Near-Surface Geophysical Techniques for Improved Subsurface Imaging and Reducing Uncertainty in Discrete Anomaly Detection. Ph.D. dissertation, May 2013.

- \* Perilla-Castillo, Paula. Reconstructing Paleofloods in East Tennessee, USA, from Sedimentary Deposits. Ph.D. dissertation, in progress. (Co-Chair with Dr. Larry McKay, Department of Earth and Planetary Sciences).

Sweeney, Aidan. Hydrodynamic and Functional Interpretations of Morphological Variation in the Stem and Theca of Glyptocystitoid Rhombiferan Echinoderms. Ph.D. dissertation, in progress.

#### **Department of Anthropology**

Weinand, Daniel. A Reevaluation of the Paleoenvironmental Reconstructions Associated with *Homo erectus* from Java, Indonesia, Based on the Functional Morphology of Fossil Bovid Astragali. Ph.D. dissertation, May 2005.

Carmody, Stephen. From Foraging to Food Production on the Southern Cumberland Plateau: A Diachronic View of Plant Use. Ph.D. dissertation, December 2014.

Sain, Douglas. Evaluating Pre-Clovis at the Topper Site (38A123), South Carolina, U.S.A. Ph.D. dissertation, August 2015.

Johanson, Jessie. A Household Approach to Reconstructing the Townsend Sites in East Tennessee, U.S.A.: Foodways and Daily Practice Within a Mississippian Settlement. Ph.D. dissertation, August 2017.

Green, Jennifer. Dynamics of Social Landscapes, Faunal Communities, and Seasonal Hydrologic Conditions in Prehistoric South Florida. Ph.D. dissertation, in progress.

#### **Department of Botany (merged with Ecology and Evolutionary Biology in 2005)**

Davison, Paul. Floristic and Phytogeographic Studies of the Hepatic Flora of the Aleutian Islands, Alaska. Ph.D. dissertation, December 1993.

- \* Rodgers III, John C. Modern Pollen Rain in Costa Rica. M.S. thesis, May 1994 (Co-Chair with Edward Clebsch, Department of Botany).

Gordon, Scott. Speciation and Species Concepts in *Marasmius* (Bacidomycotina, Fungi). Ph.D. dissertation, August 1994.

Maclin, Theodore. The Effects of Management Treatments on Tennessee Cone Flower *Echinacea tennesseensis* (Beadle) Small; Wilson County, Tennessee. M.S. thesis, August 1994.

- Young, John. The Cliff Ecology and Genetic Structure of Northern White Cedar (*Thuja occidentalis* L.) in its Southern Disjunct Range. M.S. thesis, December 1995.
- Small, Virginia. The Vascular Flora of Pickett State Park and Forest, Tennessee and Kentucky. Non-thesis M.S. project, December 1995.
- Bullington, Chris. The Vascular Flora of the Upper Clinch River in Claiborne, Grainger, and Hancock Counties, Tennessee. M.S. thesis, August 1997.
- Choberka, Erica. A Study of Epixylic Bryophyte Ecology on Fraser Fir Logs in the Great Smoky Mountains National Park. M.S. thesis, December 1998.
- Jin, Jiankang. Studies in *Panellus stypticus* and the Genus *Panellus* complex. Ph.D. dissertation, December 1999.
- Fraley, Nancy. The Vascular Flora of Frozen Head State Natural Area, Morgan and Anderson Counties, Tennessee. Non-thesis M.S. project, August 2000.
- Mata, Juan. Taxonomy and Systematics of *Lentinula*, *Gymnopus*, and *Rhodocollybia* (Agaricales, Fungi) with Emphasis on Oak Forests of Southern Costa Rica. Ph.D. dissertation, August 2002.
- Bowman, Keith. Bryophytes of Fall Creek Falls State Park, Van Buren and Bledsoe Counties, Tennessee, U.S.A. M.S. thesis, May 2003.
- Siripun, Kunsiri Chaw. A Revision of the Genus *Eupatorium* and Determination of Diploid and Polyploid Populations of *Eupatorium rotundifolium* and *E. sessilifolium*. Ph.D. dissertation, May 2004.
- Shaw, Joey. Systematics of the North American Plums (*Prunus* subgenus *Prunus* section *Prunocerasus*; Rosaceae). Ph.D. dissertation, April 2005.
- Farmer, Susan. Additional Insights into Trilliaceae Systematics: The *Delostylis* Group. Ph.D. dissertation, August 2007.

### **Department of Ecology and Evolutionary Biology**

- Pauley, Eric. The Influence of Episodic Reproduction by Red Spruce on Long-term Forest Dynamics in the Cranberry Wilderness, West Virginia. Ph.D. dissertation, May 1993.
- Holmgren, Milena. Distribution and Abundance of Tree Seedlings Under Different Moisture and Light Conditions in Walker Branch Watershed, Tennessee. Ph.D. dissertation, August 1996.
- Turrill, Nicole. Using Prescribed Fire to Regenerate *Pinus echinata*, *P. pungens* and *P. rigida* Communities in the Southern Appalachian Mountains. Ph.D. dissertation, May 1998.
- Manne, Lisa. Factors Predicting Distribution and Threat for Island and Continental Birds. Ph.D. dissertation, June 1999.
- Campbell, Todd. Analysis of the Effects of an Exotic Lizard (*Anolis sagrei*) on a Native Lizard (*Anolis carolinensis*) in Florida, Using Islands as Experimental Units. Ph.D. dissertation, May 2000.
- Estes, Dwayne. Systematics of *Gratiola* (Plantaginaceae tribe *Gratiroleae*). Ph.D. dissertation, January 2008.
- Pasachnik, Stesha. Conservation Genetics and the Critically Endangered *Ctenosaura melanosterna* Complex (Sauria: Iguanidae): Issues in Management Units, Hybridization, Invasive Species, and Small Population Sizes. Ph.D. dissertation, August 2010.

Furches, Steven M. The Role of Hybridization in Structuring Species- and Population-Level Variation in *Sarracenia* (Sarraceniaceae). Ph.D. dissertation, August 2012.

Sánchez-García, Marisol. Systematics of the Tribe Leucopaxilleae (Agaricales). Ph.D. dissertation, August 2016.

Floden, Aaron. Systematics, Biogeography, Diversification, and Cytological evolution in *Polygonatum* (Asparagaceae) and *Heteropolygonatum*. Ph.D. dissertation, May 2017.

Massana, Kathryn. Using Phylogenetic Comparative Methods to Understand Trait and Historical Biogeography Evolution in Various Taxa. Ph.D. dissertation, May 2017.

Grant, Allanie-Grace. Ecogeographical and Micromorphological Differentiation Between Selfing and Outcrossing Sister Species. Ph.D. dissertation, May 2021.

Hubert, Mali. Fire as an Ecological Disturbance in Eastern Forests. Ph.D. dissertation, in progress.

#### **Department of Forestry, Wildlife, and Fisheries**

Jones, Mark. Black Bear Use of Forest and Agricultural Environments in Coastal North Carolina. M.S. thesis, May 1996.

Gray, Ellen. Patterns of Seed Production in Table Mountain Pine (*Pinus pungens* Lamb.). M.S. thesis, May 2001.

#### **College Scholars Program**

Camill, Phil. Fire Intensity and Vegetation Recovery in a Two-year, Post-burn Boreal Forest: Analysis of Spatial Patterns. Undergraduate research project, May 1993.

Erdely, Kirby. The Cumberland Avenue Self-guiding Nature Trail, University of Tennessee, Knoxville. Undergraduate research project, May 1996.

### **STUDENT COMMITTEES AT OTHER UNIVERSITIES**

#### **National University of Costa Rica, Technological Institute of Costa Rica, and State Distance University of Costa Rica (Collaborative Doctoral Program)**

Rodríguez Arias, Cindy. Ecology and Conservation of the Quebrada Estero Wetlands, Costa Rica. Ph.D. dissertation, December 2017.

#### **University of Georgia (Department of Geography)**

Wu, Jiaying. Holocene Climate and Environmental Change in the Highlands of Costa Rica: Evidence from Glacial Lakes. Ph.D. dissertation, May 2018.

#### **University of Costa Rica (Doctoral Program in Science)**

Artavia, Luis Guillermo. The Savanna Ecosystem of Southern Costa Rica. Ph.D. dissertation, in progress.

## INVITED LECTURES AND RESEARCH PRESENTATIONS:

1986	Department of Geography, University of California, Berkeley.
1986	Department of Geography, University of California, Los Angeles.
1986	Department of Geography, University of Oregon.
1987	Department of Geography, San Diego State University.
1988	Bearden High School, Knoxville, Tennessee.
1988	Bearden Middle School, Knoxville, Tennessee.
1988	Department of Plant and Soil Science, University of Tennessee.
1989	Department of Geography, University of Tennessee.
1989	Tennessee Geographical Alliance, Knoxville, Tennessee.
1990	Cedar Bluff Middle School, Knoxville, Tennessee.
1990	Program in Ecology, University of Tennessee.
1990	Latin American Studies, University of Tennessee.
1990	Department of Botany, University of Tennessee.
1991	Department of History and Geography, Clemson University.
1991	Tennessee Geographical Alliance, Knoxville, Tennessee.
1991	Department of Plant and Soil Science, University of Tennessee.
1992	Department of Geography, University of Georgia.
1992	Naturalist Club, University of Tennessee.
1992	Program in Ecology, University of Tennessee.
1992	Knoxville Science Club, Knoxville, Tennessee.
1992	Department of Geography and Planning, Appalachian State Univ.
1992	Department of Geography, Virginia Tech.
1992	Cedar Bluff Middle School, Knoxville, Tennessee.
1992	Department of Geography, University of Costa Rica.
1992	Geography Alumni Reception, University of Tennessee.
1992	Department of Forestry, Wildlife, and Fisheries, Univ. of TN.
1993	West Hills Baptist Church Kindergarten, Knoxville, Tennessee.
1993	Department of Geography, Univ. North Carolina-Chapel Hill.
1993	Department of Botany, Duke University.
1994	Cedar Bluff Primary School, Knoxville, Tennessee.
1994	Centripetals Program, University of Tennessee.
1994	Department of Geography, Dartmouth College.
1995	Museum of History and Geography, Santo Domingo, Dominican Republic.
1995	O'Connor Senior Center, Knoxville, Tennessee.
1995	Department of Forestry, Wildlife, and Fisheries, Univ. of TN.
1996	Museum of History and Geography, Santo Domingo, Dominican Republic.
1996	Department of Ecology, University of Minnesota.
1996	Department of Geography, University of Minnesota.
1996	La Selva Biological Station, Costa Rica.
1996	Department of Ecology and Evolutionary Biology, Univ. of TN.
1996	Department of Geography, University of Wisconsin.
1996	Sumner Academy, Gallatin, Tennessee.
1997	Beaumont Elementary School, Knoxville, Tennessee.
1997	Cedar Bluff Primary School, Knoxville, Tennessee.
1997	Sumner Academy, Gallatin, Tennessee.
1997	College Honors Program, University of Tennessee.
1997	College Honors Program, University of Tennessee.
1997	Department of Ecology and Evolutionary Biology, Univ. of TN.
1997	National Geographic Society, Washington, D.C.
1997	Department of Geography, University of Delaware.
1997	Museum of History and Geography, Santo Domingo, Dominican Republic.

- 1997 Department of Geological Sciences, University of Tennessee.  
1998 La Selva Biological Station, Costa Rica.  
1998 Department of Geography, Syracuse University.  
1998 College Honors Program, University of Tennessee.  
1999 Workshop on Global Environmental Change, Tennessee Geographic Alliance, Knoxville.  
2000 Beaumont Elementary School, Knoxville.  
2002 Department of Geography, University of Kentucky (Ellen Churchill Semple Speaker).  
2003 Park Administration Center, Chirripó National Park, San Gerardo, Costa Rica.  
2003 Talahi Garden Club, Knoxville, Tennessee.  
2003 Department of Geography, Ohio State University.  
2005 Department of Geography, University of Minnesota  
2005 Department of Geography, Texas A&M University (Clarissa Kimber Speaker)  
2005 McClung Museum, University of Tennessee  
2005 University of Costa Rica (3 lectures)  
2008 Costa Rican State Distance University (Universidad Estatal a Distancia)  
2008 Department of Geography, University of Georgia.  
2008 St. Josephs School, Knoxville, Tennessee  
2009 Department of Geography, University of Denver.  
2009 Department of Geography, Louisiana State University.  
2009 Rocky Hill Elementary School, Knoxville.  
2009 Museum of Natural History, Santo Domingo, Dominican Republic.  
2011 University of Costa Rica (2 lectures)  
2012 Highlands Biological Station, North Carolina (Zahner Conservation Lecture)  
2014 Department of Biology, Western Carolina University.  
2015 School of Geographical Sciences, Arizona State University (Comeaux Lecture)  
2015 Department of Earth Sciences, Tennessee Technological University  
2015 Department of Geography and Planning, Appalachian State University  
2015 Haslam Scholars Program Faculty Lecture Series, University of Tennessee  
2015 Department of Anthropology, University of Tennessee  
2016 Department of Geosciences, Baylor University  
2016 Geography Faculty Development Alliance Workshop, University of Tennessee  
2016 Department of Geography, Brigham Young University  
2017 Geography Faculty Development Alliance Workshop, University of Tennessee  
2017 Department of Geography and the Environment, University of Texas  
2017 Department of Geosciences, Auburn University  
2018 School of Geographical Sciences, The National University of Costa Rica (2 lectures)  
2018 Great Smoky Mountains Conservation Association, Knoxville, Tennessee.  
2019 School of Geography, The University of Costa Rica  
2019 Department of Civil and Environmental Engineering, University of Tennessee  
2019 Department of Geography, Virginia Tech  
2019 Department of Forestry, Wildlife, and Fisheries, University of Tennessee  
2020 Department of Anthropology, University of Tennessee

#### **PAPERS PRESENTED AT CONFERENCES:**

- 1983 Horn, S.P. "A Late Quaternary Pollen Record from Costa Rica." Annual meeting of the Association of American Geographers, 24–27 April 1983, Denver, Colorado.
- 1983 Horn, S.P. "Análisis Palinológico de Sedimentos Marinos del Talud Continental del Oeste de Costa Rica." V Coloquio Sobre Paleobotánica y Palinología, 25–29 July 1983, Mexico City, Mexico.
- 1983 Horn, S.P. "Estudio Palinológico Preliminar de Dos Núcleos Cortos del Golfo Dulce, Costa Rica." V Coloquio Sobre Paleobotánica y Palinología, 25–29 July 1983, Mexico City, Mexico.

- 1984 Byrne, R. and Horn, S.P. "Prehistoric Agriculture in the Olmec Heartland: Pollen Evidence from Lago Catemaco, Veracruz, Mexico." Symposium on the Biogeography of Mesoamerica, 26–30 October 1984, Mérida, Mexico.
- 1985 Horn, S.P. "The Biogeography and Fire Ecology of the Bamboo *Swallenochloa subtessellata* in Costa Rica." Annual meeting of the Association of Pacific Coast Geographers, 12–15 September 1985, Los Angeles, California.
- 1986 Horn, S.P. "Vegetation Recovery After Fire in Chirripó National Park, Costa Rica." Annual meeting of the Association of American Geographers, 3–7 May 1986, Minneapolis, Minnesota.
- 1987 Horn, S.P. "Vegetation Development After Fire in the Costa Rican Páramos." Annual meeting of the Association of American Geographers (Nystrom Special Award Session), 21–26 April 1987, Portland, Oregon.
- 1988 Horn, S.P. "Montane Bogs in the Cordillera de Talamanca, Costa Rica." Biennial meeting of the Conference of Latin Americanist Geographers, January 1988, San José, Costa Rica.
- 1988 Horn, S.P. and Byrne, R. "Pollen Analysis in the Olmec Heartland." Annual meeting of the Association of American Geographers, 6–10 April 1998, Phoenix, Arizona.
- 1988 Horn, S.P. "Prehistoric Fires in Highland Costa Rica: Sedimentary Charcoal Evidence." Annual meeting of the Southeastern Division of the Association of American Geographers, 20–22 November 1988, Mobile, Alabama.
- 1989 Horn, S.P. "Recent Vegetation History in Highland Costa Rica." Annual meeting of the Association of American Geographers, 18–22 March 1989, Baltimore, Maryland.
- 1989 Horn, S.P. "The Impact of Burning on a Montane Mire in Costa Rica." Annual meeting of the Southeastern Division of the Association of American Geographers, 19–21 November, Charleston, West Virginia.
- 1990 Horn, S.P. "Fire History and Fire Ecology in the Costa Rican Páramos." International Symposium on Fire and the Environment: Ecological and Cultural Perspectives, 20–24 March 1990, Knoxville, Tennessee.
- 1990 Horn, S.P. "The Deglaciation of Cerro Chirripó, Costa Rica." Annual meeting of the Southeastern Division of the Association of American Geographers, 18–20 November, Columbia, South Carolina.
- 1991 Horn, S.P. "Microfossils and Forest History in Costa Rica." Conference on Forest and Environmental History in Latin America, March 1991, San José, Costa Rica (invited).
- 1991 Horn, S.P. and Sanford, Jr., R.L. "Rainforest and Páramo Fires in Pre-Columbian Costa Rica: Evidence of Regional Droughts?" Annual meeting of the Association of American Geographers, April 1991, Miami, Florida.
- 1991 Horn, S.P. and Haberyan, K.A. "Costa Rican Lakes: Distribution and Diversity." Annual meeting of the Southeastern Division of the Association of American Geographers, 24–26 November 1991, Asheville, North Carolina.
- 1992 Horn, S.P. "Postglacial Vegetation and Fire History in the Chirripó Páramo, Costa Rica." Annual meeting of the Association of American Geographers, 18–22 April 1992, San Diego, California (invited).
- 1992 Horn, S.P. "Costa Rica Before Columbus: Paleoecological Evidence." Biennial meeting

of the Conference of Latin Americanist Geographers, September 23–26, Santo Domingo,  
Dominican Republic.



- 1993 Horn, S.P., Horn, R.D., and Byrne, R. "Image Analysis in Sediment-based Studies of Fire History." Annual meeting of the Association of American Geographers, 4–10 April 1993, Atlanta, Georgia.
- 1993 Northrop, L. and Horn, S.P. "Prehistoric Agriculture and Rainforest Dynamics in the Middle Watershed of the Río Reventazón, Costa Rica." Annual meeting of the Association of American Geographers, 4–10 April 1993, Atlanta, Georgia.
- 1993 Killeffer, S. and Horn, S.P. "The Environmental History of Laguna González, Costa Rica." Annual meeting of the Association of American Geographers, 4–10 April 1993, Atlanta, Georgia.
- 1993 Rodgers, J.C. III and Horn, S.P. "Modern Pollen Rain in Costa Rica." Annual meeting of the Association of Southeastern Biologists, March 1993, Virginia Beach, Virginia.
- 1993 Sutherland, E.K., Grissino-Mayer, H., Woodhouse, C., Covington, W.W., Horn, S., Huckaby, L., Kerr, R., Kush, J., Moore, M., and Plumb, T. "Two Centuries of Fire in a Southwestern Virginia *Pinus pungens* Community." IUFRO Conference on Inventory and Management in the Context of Catastrophic Events, 21–24 June 1993, University Park, Pennsylvania.
- 1993 Horn, S.P. "Land Use History from Sediments and Soils in the Neotropics." Annual meeting of the Ecological Society of America, July 31–August 4 1993, Madison, Wisconsin (invited).
- 1993 Rodgers, J.C. III and Horn, S.P. "Bird Seed and the Spread of Alien Plants." Annual meeting of the Southeastern Division of the Association of American Geographers, 21–23 November, Greensboro, North Carolina.
- 1994 Horn, S.P. "Managing Parks in Highland Costa Rica: Perspectives from Biogeographical Research." Annual meeting of the Association of American Geographers, 29 March–2 April 1994, San Francisco, California (invited).
- 1994 Gray, E.G. and Horn, S.P. "A Late Holocene History of a Costa Rican Rainforest." Annual meeting of the Association of American Geographers, 29 March–2 April 1994, San Francisco, California.
- 1994 Horn, S.P. and Northrop, L.A. "Precolumbian Agriculture, Fires, and Forests in the Reventazón Watershed, Costa Rica." Annual meeting of the Ecological Society of America, 7–11 August 1994, Knoxville, Tennessee.
- 1995 Horn, S.P., Northrop, L.A., Rodgers, J.C. III, Wallin, T.R., and Sanford, Jr., R.L. "Soil Pollen and Land Use History in the Lowland Tropics: Preliminary Data." Annual meeting of the Association of American Geographers, 15–19 March 1995, Chicago, Illinois.
- 1995 Horn, S.P. "Postfire Resprouting of *Hypericum irazuense* Kuntze Following High Elevation Fires in Costa Rica: Asunción Revisited." Annual meeting of the Association of Southeastern Biologists, 19–21 April 1995, Knoxville, Tennessee.
- 1995 Haberyan, K.A., Horn, S.P., and Cumming, B.F. "Diatom Assemblages in Costa Rican Lakes: An Initial Ecological Assessment." XII North American Diatom Symposium, Iowa Lakeside Laboratory, Lake Okoboji, Iowa.
- 1995 Rodgers, J.C. III, and Horn, S.P. "Tropical Pollen Rain and Vegetation: Research Results from Costa Rica." Annual meeting of the Southeastern Division of the Association of

American Geographers, 19–21 November 1995, Knoxville, Tennessee.

- 1996 Horn, S.P. “Fires, Farms, and Forests in PreColumbian Costa Rica.” Annual Meeting of the National Science Teachers Association, 28–31 March 1996, St. Louis, Missouri.
- 1996 Horn, S.P. and Rodgers, J.C. III. “Environmental History in Costa Rica: Sediment Records from Laguna María Aguilar.” Annual Meeting of the Association of American Geographers, 8–14 April 1996, Charlotte, North Carolina.
- 1996 Kennedy, L.M. and Horn, S.P. “Late Holocene Forest and Land Use History at the La Selva Biological Station, Costa Rica.” Annual Meeting of the Association of American Geographers, 8–14 April 1996, Charlotte, North Carolina.
- 1996 Horn, S.P., Kennedy, L.M., Orvis, K.H., and G.M. Clark. “Searching for Evidence of Past Glaciation in the Dominican Republic.” International Conference on Quaternary Glaciation and Paleoclimate in the Andes Mountains, 21 June – 1 July 1996, Mérida, Venezuela (presented by L.M. Kennedy).
- 1996 Rodgers III, J.C. and S.P. Horn. “Testing the Feasibility of Soil Pollen Analysis in the Tropics.” Annual Meeting of the Southeastern Division of the Association of American Geographers, 24–26 1996, Athens, Georgia.
- 1996 Orvis, K.H., Clark, G.M., Horn, S.P., and Kennedy, L.M. “Cryogenic Geomorphology in the Caribbean: Preliminary Observations in the Cordillera Central, Dominican Republic.” Annual Meeting of the Southeastern Division of the Association of American Geographers, 24–26 1996Athens, Georgia.
- 1997 Horn, S.P. “Paleo-perspectives in Biogeography.” Annual Meeting of the Association of American Geographers, 1–5 April 1997, Ft. Worth, Texas (invited).
- 1997 Kennedy, L.M. and S.P. Horn. “Rainforest Dynamics and Late Holocene Climate History: Evidence from a Costa Rican Swamp.” Annual Meeting of the Association of American Geographers, 1–5 April 1997, Ft. Worth, Texas.
- 1997 Martin Kier, V. and S.P. Horn. “Impact of Late-Holocene Volcanic Eruptions on Aquatic Communities at Lago Cote, Costa Rica.” Annual Meeting of the Association of American Geographers, 1–5 April 1997, Ft. Worth, Texas.
- 1997 League, B. and S.P. Horn. “Charcoal Content and Magnetic Susceptibility of a Sediment Core from Lago Morrenas, Costa Rica.” Annual Meeting of the Association of American Geographers, 1–5 April 1997, Ft. Worth, Texas.
- 1997 Horn, S.P., Kennedy, L.M., Northrop, L.A., Gray, E., and Rodgers III, J.C. “Prehistoric Human Disturbance of Tropical Forests in Costa Rica: Paleoecological Evidence from the Central Atlantic Watershed.” Annual Meeting of the Association for Tropical Biology, 15–20 June 1997, San José, Costa Rica.
- 1998 Horn, S.P., Kennedy, L.M., Orvis, K.H., and Clark, G.M. “Fire History in the Highlands of the Dominican Republic.” Annual Meeting of the Association of American Geographers, 25–29 March 1998, Boston, Massachusetts.
- 1998 Orvis, K.H., Horn, S.P., Clark, G.M., and Kennedy, L.M. “Pleistocene Glaciers in the Caribbean.” Annual Meeting of the Association of American Geographers, 25–29 March 1998, Boston, Massachusetts.
- 1998 Horn, S.P., Kennedy, L.M., Harrell, K.A., and Sanford, Jr., R.L. “PreColumbian Agriculture at the La Selva Biological Station, Costa Rica.” Annual meeting of the Ecological Society of America, 2–6 August 1998, Baltimore, Maryland.

- 1998 Sanford, Jr., R.L., Harrell, K.A., and Horn, S.P. "Evidence of Holocene Fires in Tropical Forests from Soil Charcoal in Central and South America." Annual meeting of the Ecological Society of America, 2–6 August 1998, Baltimore, Maryland.
- 1998 Horn, S.P. and League, B. "Sedimentary Charcoal, Magnetic Susceptibility, and Fire History in the Chirripó Páramo, Costa Rica." Poster. Biennial meeting of the American Quaternary Association, 5–7 September 1998, Puerto Vallarta, Mexico.
- 1998 Orvis, K.H. and Horn, S.P. "New Evidence on the Glacial History of Cerro Chirripó, Costa Rica." Poster. Biennial meeting of the American Quaternary Association, 5–7 September 1998, Puerto Vallarta, Mexico.
- 1998 Speer, J.H., Horn, S.P., Orvis, K.H., and Kennedy, L.M. "The 1998 Alliance Incentive Project: Combining National Geographic Education with Research and Exploration." Third Annual Statewide Tennessee Geographic Alliance Meeting, Knoxville, Tennessee.
- 1998 Horn, S.P., Orvis, K.H., Kennedy, L.M., and Speer, J.H. "Research in Valle Nuevo, Dominican Republic: The 1998 Alliance Incentive Project." Poster. Third Annual Statewide Tennessee Geographic Alliance Meeting, Knoxville, Tennessee.
- 1998 Orvis, K.H., Horn, S.P., and Jumper, S.R. "The Teaching of Geographic Research: K–12 Teachers and the Frontiers of Science in the Dominican Republic Highlands." Annual meeting of the Southeastern Division of the Association of American Geographers, 22–24 November, Memphis, Tennessee.
- 1999 Clement, R.M. and Horn, S.P. "Paleoecological Evidence of Long Term Land Use History near the Las Cruces Biological Station, Costa Rica." Annual meeting of the Association of American Geographers, 23–27 March 1999, Honolulu, Hawaii.
- 1999 Sanford, Jr., R.L. and Horn, S.P. "Holocene Rain Forest Wilderness: A Neotropical Perspective on Humans as an Exotic, Invasive Species." Conference on Wilderness Science in a Time of Change, 23–27 May 1999, Missoula, Montana.
- 1999 Speer, J.H., Kennedy, L.M., Horn, S.P., and Orvis, K.H. "Initial Tree Ring Analyses of *Pinus occidentalis* in the Highlands of the Dominican Republic." Annual meeting of the Ecological Society of America, 8–12 August 1999, Spokane, Washington.
- 1999 Orvis, K.H., Horn, S.P., Kennedy, L.M., Speer, J.H., Jumper, S.R., and Gibbs, K. "Outstanding in Their Field While Standing Out in the Field: Adding Teachers to the Research Team." Annual meeting of the National Council for Geographic Education, 3–6 November, Boston, Massachusetts.
- 1999 Lafon, C., Huston, M., and Horn, S.P. "Influences of Pre-abandonment Soil Loss on Forest Succession Rates and Tree Diversity on Former Pastures on the Oak Ridge Reservation, East Tennessee." 10<sup>th</sup> Southern Appalachian Man and the Biosphere meeting, 1–3 November, Gatlinburg, Tennessee.
- 2000 Horn, S.P., Kennedy, L.M., and Orvis, K.H. "Vegetation Recovery After Fire in the Mountains of the Dominican Republic." Annual meeting of the Association of American Geographers, 4–8 April 2000, Pittsburgh, Pennsylvania.
- 2000 Arford, M.R. and Horn, S.P. "Natural and Human Disturbance of Tropical Rainforests: Paleoecological Evidence from Lago Cote, Costa Rica." Annual meeting of the Association of American Geographers, 4–8 April 2000, Pittsburgh, Pennsylvania.
- 2000 Orvis, K.H. and Horn, S.P. "Reconstructing Glaciers and Climates of Cerro Chirripó,

- Costa Rica.” Annual meeting of the Association of American Geographers, 4–8 April 2000, Pittsburgh, Pennsylvania.
- 2000 Kennedy, L.M. and Horn, S.P. “Fire-Vegetation Dynamics Following the 1997 Bermúdez-Ramírez Fire, Cordillera Central, Dominican Republic.” Annual meeting of the Association of American Geographers, 4–8 April 2000, Pittsburgh, Pennsylvania.
- 2000 Speer, J.H., Kennedy, L.M., Horn, S.P., and Orvis, K.H. “Initial Tree Ring Analyses of *Pinus occidentalis* in the Highlands of the Dominican Republic.” International Dendrochronology Conference, 2–7 April 2000, Mendoza, Argentina.
- 2000 Marchant, R., Behling, H., Berrío, J.C., Boom, A., Cleef, A., Harrison, S., Hooghiemstra, H., Markgraf, V., Prentice, C., Absy, M.L., Ager, T., Anderson, R., Baied, C., Björck, S., Byrne, R., Bush, M., Duivenvoorden, J., Flenley, J., De-Oliveira, P., Graf, K., Haberle, S., Hansen, B., Horn, S., Kuhry, P., Ledru, M., Leyden, B., García-Lozano, S., Melief, B., Moreno, P., Moar, N., Prieto, A., Salgado-Labouriau, M., Schäbitz, F., Schreve-Brinkman, E., Van Geel, B., Van der Hammen, T., and Van Reenen, G. “Pollen-Based Biome Reconstructions for Latin America: Applications at a Range of Spatial and Temporal Scales and Links to Climate and Vegetation Model Output.” Colombian Biome Meeting, 27–29 November 2000, Bogotá, Colombia.
- 2001 Marchant, R., Behling, H., Boom, A., Cleef, A.M., Harrison, S., Hooghiemstra, H., Markgraf, V., Prentice, C., Absy, M.L., Ager, T., Anderson, R., Baied, C., Björck, S., Bryne, R., Bush, M., Berrío Mogollon, J.C., Duivenvoorden, J., Flenley, J., De Oliveria, P., Graf, K., Haberle, S., van der Hammen, T., Hansen, B., Horn, S., Kuhry, P., Ledru, M.-P., Leyden, B., Lozano-García, S., Melief, A.B.M., Moreno, P., Moar, N.T., Prieto, A.R., Salgado-Laboriau, M.L., Schäbitz, F., Schreve-Brinkman, E.J., van Geel, B., van der Hammen, T., van Reenan, G.B.A. “Pollen-based Reconstructions for Latin America: Applications at a Range of Spatial and Temporal Scales and Links to Climate and Vegetation Model Output.” Symposium on Tropical and Subtropical Palynology (America-Africa), 9–14 February 2001, Havana, Cuba.
- 2001 Marchant, R., Absy, M.L., Ager, T., Anderson, R., Behling, H., Björck, S., Bryne, R., Bush, M., Flenley, J., De Oliveira, P., van Geel, B., Graf, K., van der Hammen, T., Hansen, B., Haberle, S., Hooghiemstra, H., Horn, S., Kuhry, P., Ledru, M.-P., Leyden, B., Lozano-García, S., Markgraf, V., Melief, B., Moreno, P., Moar, N.T., Prieto, A., Salgado-Laboriau, M.L., Schäbitz, F., Schreve-Brinkman, E., van Reenan, G.B.A., Watts, W.A., Wijnstra, T.A. “The Latin American Pollen Database.” Symposium on Tropical and Subtropical Palynology (America-Africa), 9–14 February 2001, Havana, Cuba.
- 2001 Anchukaitis, K.J. and Horn, S.P. “A 2000-yr History of Anthropogenic Forest Disturbance in Southwestern Costa Rica.” Annual meeting of the Association of American Geographers, 27 February–3 March 2001, New York, New York.
- 2001 Horn, S.P., Sanford, Jr., R.L., Dilcher, D., Lott, T., Wiemann, M.C., Vargas, O., and Renne, R.P. “Pleistocene Pollen and Macrofossils from Lowland Costa Rica and Ecuador.” Annual meeting of the Association of American Geographers, 27 February–3 March 2001, New York, New York.
- 2001 Kennedy, L.M., Horn, S.P., and Orvis, K.H. “Modern Pollen Spectra from the Highlands of the Dominican Republic.” Annual meeting of the Association of American Geographers, 27 February–3 March 2001, New York, New York.
- 2001 Budzinski, K.M., Horn, S.P., Kennedy, L.M., and Orvis, K.H. “A 5000-yr Pollen and Macroscopic Charcoal Record from the Highlands of the Dominican Republic.” Annual meeting of the Association of American Geographers, 27 February–3 March 2001, New York, New York.

- 2001 Arford, M.R., Horn, S.P, and Kopp, O.C. “Tephrostratigraphy at Lago Cote, Costa Rica: Intrabasin and Extrabasin Comparisons.” Poster. Annual meeting of the Association of American Geographers, 27 February–3 March 2001, New York, New York.
- 2001 Orvis, K.H., Horn, S.P., and Rodgers III, J.C. “Pollen in a Non-aggrading Tropical Soil: Vertical and Horizontal Variation at Local and Micro-scales.” Annual meeting of the Association of American Geographers, 27 February–3 March 2001, New York, New York.
- 2002 Horn, S.P., Orvis, K.H., Haberyan, K.A., and League, B.L. “Glacial Lakes and Lake Sediments in Chirripó National Park, Costa Rica.” Annual meeting of the Association of American Geographers, 19–23 March 2002, Los Angeles, California.
- 2002 Kennedy, L.M. and Horn, S.P. “Postfire Vegetation Dynamics in Juan B. Pérez Rancier National Park, Cordillera Central, Dominican Republic.” Annual meeting of the Association of American Geographers, 19–23 March 2002, Los Angeles, California.
- 2002 Orvis, K.H., Horn, S.P., and Clark, G.M. “The Case for Late Pleistocene Glaciers on Hispaniola.” Annual meeting of the Association of American Geographers, 19–23 March 2002, Los Angeles, California.
- 2002 Lane, C.S., Horn, S.P., and Mora, C.I. “Paleoecological Significance of Stable Carbon Isotopes in Lake Sediments from the Páramo of Costa Rica.” Annual meeting of the Geological Society of America, 27–30 October 2002, Denver, Colorado.
- 2002 Stiles, C.A., Mora, C.I., Driese, S.G., and Horn, S.P. “Genesis and Morphology of Soils Associated With Laguna Bocana in Palo Verde National Park, Costa Rica.” Annual meeting of the Soil Science Society of America, November 2002, Indianapolis, Indiana.
- 2003 Anchukaitis, K.J. and Horn, S.P. “Pre-Columbian Forest Disturbance and Volcanism in the Chibchan-Chocoan Area: Paleoecological Evidence from Southern Pacific Costa Rica.” Annual meeting of the Conference of Latin Americanist Geographers, January 2003, Tucson, Arizona.
- 2003 Horn, S.P., Orvis, K.H., Kennedy, L.M., and Clark, G.M. “Sediments, Pollen, and Charcoal in Laguna Grande de Macutico, Dominican Republic.” Annual meeting of the Association of American Geographers, 4–8 March 2003, New Orleans, Louisiana.
- 2003 Orvis, K.H., Horn, S.P., and Harden, C.P. “Rapid Modern Environmental Change in Páramo Lakes of Cerro Chirripó, Costa Rica.” Annual meeting of the Association of American Geographers, 4–8 March 2003, New Orleans, Louisiana.
- 2003 Arford, M.R. and Horn, S.P. “An 8000-year Pollen and Charcoal Record from Laguna Estero Blanco, Northwestern Costa Rica.” Annual meeting of the Association of American Geographers, 4–8 March 2003, New Orleans, Louisiana.
- 2003 Kennedy, L.M., Horn, S.P., and Orvis, K.H. “A 4000-yr Sediment Record of Fire and Forest History from Valle de Bao, Dominican Republic.” Annual meeting of the Association of American Geographers, 4–8 March 2003, New Orleans, Louisiana.
- 2003 Lane, C.S., Horn, S.P., and Mora, C.I. “Stable Carbon Isotopes in Sediments as Indicators of Prehistoric Forest Clearance in Costa Rica.” Annual meeting of the Association of American Geographers, 4–8 March 2003, New Orleans, Louisiana.
- 2003 Horn, S.P. “Understanding Historical Effects: Paleoecology of Costa Rica.” Tropical Science for the 21<sup>st</sup> Century Scientific Symposium, Organization for Tropical Studies, 30

March–April 5 2003, San José, Costa Rica (invited plenary talk).

- 2003 Newkirk, D.R., Filippelli, G., Souch, C., Latimer, J., and Horn, S.P. “The Impact of Climate and Pre-Columbian Agriculture on Soil and Nutrients in Southwestern Costa Rica.” Poster. XVI Congress of the International Quaternary Association, 24–30 July 2003, Reno, NV.
- 2003 Arford, M.R. and Horn, S.P. “Holocene Records of Climate Change and Prehistoric Agriculture from Lagunas Martínez and Las Brisas, Guanacaste, Costa Rica.” Poster. Third International Limnogeology Conference, 29 March–2 April 2003, Tucson, Arizona.
- 2003 Anchukaitis, K. and Horn, S.P. “Laguna Santa Elena in Context: Paleoecology and Prehistory in the Coto Brus Region of Southern Pacific Costa Rica.” Poster. Third International Limnogeology Conference, 29 March–2 April 2003, Tucson, Arizona.
- 2003 Haberyan, K.A. and Horn, S.P. “Changes in Laguna Zoncho, Costa Rica, Inferred from Diatoms.” XVII North American Diatom Symposium, 21–26 October, Islamorada, Florida.
- 2003 Newkirk, D.R., Filippelli, G., Souch, C., Latimer, J., and Horn, S.P. “An Aridification Event Beginning 1600 AD in Central America: Evidence from a Lake Sediment Core in Laguna Zoncho, Costa Rica and Effects on Agriculture and Population. Poster. Annual meeting of the Geological Society of America, 2–5 November 2003, Seattle, Washington.
- 2003 Horn, S.P. “Understanding Tropical Fire Regimes: Research Needs, Management Implications.” 2<sup>nd</sup> International Wildland Fire Ecology and Fire Management Congress, 11–12 November 2003, Orlando, Florida (invited plenary speaker).
- 2003 Orvis, K.H., Horn, S.P., Grissino-Mayer, H.D., Kennedy, L.M., League, B.L., and Speer, J.H. “Tropical Fire Regimes of the Past.” 2<sup>nd</sup> International Wildland Fire Ecology and Fire Management Congress, 11–12 November 2003, Orlando, Florida.
- 2003 Lewis, D.B., Grissino-Mayer, H.D., Orvis, K.H., and Horn, S.P. “Assessing the Dendrochronological Potential of *Pinus caribaea* Morlet on Abaco Island, The Bahamas.” Poster. Annual meeting of the Southeastern Division of the Association of American Geographers, 22–25 November 2003, Charlotte, North Carolina.
- 2004 Grissino-Mayer, H.D., Horn, S.P., Orvis, K.H., and Lewis, D. “Environmental History from Tree Rings and Lake Sediment Profiles on Abaco Island, The Bahamas.” Abaco Science Alliance Conference, 15–18 January 2004, Marsh Harbour, Abaco Island, The Bahamas.
- 2004 Newkirk, D.R., Filippelli, G., Souch, C., Latimer, J., and Horn, S. “Human Impacts in Small Tropical Watersheds: Comparing Pollen and Charcoal Evidence of Prehistoric Forest Clearance with Evidence of Soil Nutrient Status from Phosphorous Geochemistry.” Poster. National Conference for Undergraduate Research, Indiana University–Purdue University of Indiana.
- 2004 West, D.N., Burgess, J., Orvis, K.H., Horn, S.P., and Kennedy, L.M. “The Use of GPS in Collecting Samples for Biogeographic Research.” Poster. Annual GIS Day Exhibition, University of Tennessee, Knoxville, Tennessee.
- 2004 Horn, S.P., Sánchez, M., Cozadd, D., Orvis, K.H., and Anchukaitis, K. “Paleoecological and Archaeological Investigations at Laguna Vueltas, Costa Rica.” Annual meeting of the Association of American Geographers, 16–20 March 2004, Philadelphia, Pennsylvania.

- 2004 Orvis, K.H., Grissino-Mayer, H.D., Speer, J., Horn, S.P., Cseke, J., Miller, A., and Lewis, D. "Tropical Temperature Records from High-elevation *Pinus occidentalis* in the Cordillera Central, Dominican Republic." Annual meeting of the Association of American Geographers, 16–20 March 2004, Philadelphia, Pennsylvania.
- 2004 Lane, C.S., Taylor, Z., Mora, C.I., and Horn, S.P. "Reassessment of Prehistoric Human Impacts at Laguna Bonillita, Costa Rica, Using Stable Carbon Isotopes." Annual meeting of the Association of American Geographers, 16–20 March 2004, Philadelphia, Pennsylvania.
- 2004 Arford, M.R. and Horn, S.P. "A Multi-site Investigation of Holocene Paleoenvironments in Northwestern Costa Rica." Annual meeting of the Association of American Geographers, 16–20 March 2004, Philadelphia, Pennsylvania.
- 2004 Schlachter, K. and Horn, S.P. "Isolating and Quantifying Macroscopic Charcoal in Lake Sediments: Methodological Experiments." Poster. Annual meeting of the Association of American Geographers, 16–20 March 2004, Philadelphia, Pennsylvania.
- 2004 Kennedy, L.M., Horn, S.P., and Orvis, K.H. "Statistical Analyses of Modern Pollen Rain Samples from the Cordillera Central, Dominican Republic." Poster. Annual meeting of the Association of American Geographers, 16–20 March 2004, Philadelphia, Pennsylvania.
- 2004 Horn, S.P., Arford, M., Cozadd, D., Anchukaitis, K., Rodgers III, J., and Kennedy, L. "Pollen Evidence of Pre-Columbian Maize Cultivation in Costa Rica." Annual meeting of the Society of American Archaeology, April 1–4 2004, Montreal, Canada.
- 2004 Taylor, Z.P., Horn, S.P., Mora, C.I., Cozadd, D., Orvis, K.H., Sánchez, M., and Anchukaitis, K. "Stable Carbon Isotope Ratios at Laguna Vueltas, Costa Rica, as Indicators of Land-Use History and Paleoclimate. Annual meeting of the Geological Society of America, 7–10 November 2004, Denver, Colorado.
- 2004 Arford, M.R. and Horn, S.P. "The Maize Debate and Evidence for the Earliest Maize Agriculture in Costa Rica." Annual meeting of the Southeastern Division of the Association of American Geographers, 21–23 November, Biloxi, Mississippi.
- 2004 Driese, S.G., Li, Z-H., Nordt, L.C., and Horn, S.P. "Late Pleistocene to Holocene Climate Record Based on Stable Carbon Isotopes Measured in Soil Organic Matter, Field and Micromorphologic Features, and Pollen, From Floodplain Soils and Paleosols in the Southeastern U.S." Annual meeting of the Geological Society of America, 5–9 April 2005, Denver, Colorado.
- 2005 Horn, S.P., League, B.L., and Orvis, K.H. "Patterns of Recent Charcoal Accumulation in Lake Sediments in the Chirripó Páramo of Costa Rica." Annual meeting of the Association of American Geographers, 5–9 April 2005, Denver, Colorado.
- 2005 Lane, C.S., Horn, S.P., Orvis, K.H., and Mora, C.I. 2004. "Preliminary Multi-Proxy Evidence of Paleoenvironmental Change in the Mid-Elevations of the Cordillera Central, Dominican Republic." Annual meeting of the Association of American Geographers, 5–9 April 2005, Denver, Colorado.
- 2005 Taylor, Z.P., Horn, S.P., Mora, C.I., Orvis, K.H., and Cooper, L. "Environmental History at Laguna Yaguarú, Bolivia: Evidence from Pollen, Stable Carbon Isotopes, and an Embedded Mineral Facies." Annual meeting of the Association of American Geographers, 5–9 April 2005, Denver, Colorado.

- 2005 Orvis, K.H., Horn, S.P., Clark, G.M., and Kennedy, L.M. "Synchronous Bog Initiation circa 4,500 cal. yr. BP at High Elevation Sites in Hispaniola." Annual meeting of the Association of American Geographers, 5–9 April 2005, Denver, Colorado.
- 2005 Arford, M.R., and Horn, S.P. "Pollen in a Pinch: Surface Pollen Assemblages from Disturbed Mid-Elevation Forests in Northwestern Costa Rica." Annual meeting of the Association of American Geographers, 5–9 April 2005, Denver, Colorado.
- 2005 Schlachter, K.J., Horn, S.P., and Arford, M.R. "Macroscopic Charcoal Evidence of Holocene Fire History at Laguna Estero Blanco, Northwestern Costa Rica." Annual meeting of the Association of American Geographers, 5–9 April 2005, Denver, Colorado.
- 2005 Wilkins, L.B., Horn, S.P., and Orvis, K.H. "Paleoecological Investigation of East Tennessee Lakes." Poster. Annual meeting of the Association of American Geographers, 5–9 April 2005, Denver, Colorado.
- 2005 Stork, A., Horn, S.P., Orvis, K.H., and Grissino-Mayer, H.D. "Pollen and Charcoal Analysis of Sediment Cores from West Pond, Great Abaco Island, The Bahamas." Annual meeting of the Association of American Geographers, 5–9 April 2005, Denver, Colorado.
- 2005 Brogden, J., Orvis, K.H., Horn, S.P., and Arford, M.R. "Examining Mineral Silt in Lake Sediments as an Indicator of Erosion Associated with Prehistoric Human Impact, Laguna San Pablo, Guanacaste, Costa Rica." Poster. Annual meeting of the Association of American Geographers, 5–9 April 2005, Denver, Colorado.
- 2005 West, D., Orvis, K.H., Horn, S.P., Grissino-Mayer, H.D., and Bergh, C.M. "Airfall Sampling of Microscopic Charcoal During a Prescribed Fire in Pine Rocklands on Great Abaco Island, the Bahamas." Annual meeting of the Association of American Geographers, Denver, Colorado.
- 2005 Driese, S.G., Orvis, K.H., Horn, S.P., Li, Z.-H., and Dworkin, S. "Paleosol Evidence for Uplift and for Climate and Ecosystem Changes in the Cordillera Talamanca, Costa Rica." Annual meeting of the Geological Society of America, 16–19 October 2005, Salt Lake City, Utah.
- 2005 Haberyan, K.A., Horn, S.P., and Arford, M.R. "Diatom Shifts at Laguna San Pablo, Costa Rica, over the Last 8000 Years." Poster. 18<sup>th</sup> North American Diatom Symposium, Mobile, Alabama.
- 2006 Orvis, K.H., Horn, S.P., Grissino-Mayer, H.D. "Paleoclimatic Significance of Sediment Records from the Bahamas." 2<sup>nd</sup> Annual Abaco Science Alliance Conference, 15–18 January 2006, Marsh Harbour, Abaco Island, The Bahamas.
- 2006 Horn, S.P., Grissino-Mayer, H.D., Orvis, K.H., Stork, A.J., West, D.N., Miller, A.C., and Lewis, D.L. "Fire History from Bahamian Sediments and Tree Rings." 2<sup>nd</sup> Annual Abaco Science Alliance Conference, 15–18 January 2006, Marsh Harbour, Abaco Island, The Bahamas.
- 2006 Stork, A.J., Horn, S.P., Orvis, K.H., and Wiemann, M.C. "Paleoclimatic Significance of Sediment Records from the Bahamas." 2<sup>nd</sup> Annual Abaco Science Alliance Conference, 15–18 January 2006, Marsh Harbour, Abaco Island, The Bahamas.
- 2006 Horn, S.P., and Rodgers III, J.C. "The Need for Salvage Paleoecology: Pollen Analysis at Laguna Azul, Costa Rica, and Other Examples." Annual meeting of the Association of American Geographers, 7–11 March 2006, Chicago, Illinois.



- 2006 Orvis, K.H., Horn, S.P., Clark, G.M., and Kennedy, L.M. “Dearth of Early- to Mid-Holocene Hurricanes Recorded at High-Elevation Site in Central Hispaniola.” Annual meeting of the Association of American Geographers, 7–11 March 2006, Chicago, Illinois.
- 2006 Remus, B.A., Horn, S.P., Orvis, K.H., Stork, A.J., Lane, C.S., and Kennedy, L.M. “Searching for Pine Stomata in Circum-Caribbean Sediments.” Poster. Annual meeting of the Association of American Geographers, 7–11 March 2006, Chicago, Illinois.
- 2006 Taylor, Z.P., Horn, S.P., and Mora, C.I. “Intrabasin Variation in Stable Carbon Isotope Ratios.” Annual meeting of the Association of American Geographers, 7–11 March 2006, Chicago, Illinois.
- 2006 Arford, M.R. and Horn, S.P. “Species Richness Inferred from Pollen Diversity in Lake-sediment Profiles from Northwestern Costa Rica.” Annual meeting of the Association of American Geographers, 7–11 March 2006, Chicago, Illinois.
- 2006 Lane, C.S., Horn, S.P., Orvis, K.H., and Mora, C.I. “A Multi-Proxy Record of Paleoenvironmental Change in the Dominican Republic from Two Small Mid-Elevation Lakes.” Annual meeting of the Association of American Geographers, 7–11 March 2006, Chicago, Illinois.
- 2006 Stork, A.J., Horn, S.P., Orvis, K.H., Grissino-Mayer, H.D., and Wiemann, M.C. “A 2000-year Record of Vegetation and Fire History from Great Abaco Island, the Bahamas.” Poster. Annual meeting of the Association of American Geographers, 7–11 March 2006, Chicago, Illinois.
- 2006 West, D.N., Horn, S.P., Orvis, K.H., and Grissino-Mayer, H.D. “High Resolution Charcoal Analysis of a 7000-year Sediment Profile from the Bahamas.” Poster. Annual meeting of the Association of American Geographers, 7–11 March 2006, Chicago, Illinois.
- 2006 Burgess, J., and Horn, S.P. “Modern Pollen Assemblages Along Transects Across Two Lowland Tropical Lakes.” Poster. Annual meeting of the Association of American Geographers, 7–11 March 2006, Chicago, Illinois.
- 2006 Lane, C.S., Taylor, Z.P., Mora, C.I., Horn, S.P., and Orvis, K.H. “The Impact of Prehistoric Maize Agriculture on Lacustrine Sedimentary Isotopic Archives of Vegetation Change.” Poster. Annual meeting of the Southeastern section of the Geological Society of America, 23–24 March 2006, Knoxville, Tennessee.
- 2006 Lane, C.S., Horn, S.P., Mora, C.I., and Orvis, K.H. “High Resolution Analyses of Sediment Characteristics, Stable Carbon Isotope Values, and Microfossils in Late Holocene Sediments from Laguna Castilla, Dominican Republic.” Annual meeting of the Geological Society of America, 22–25 October 2006, Philadelphia, Pennsylvania.
- 2006 Mora, C.I., Horn, S.P., Orvis, K.H., Champion, L.J., Kah, L.C., Sumrall, C.D., Harden, C.P., Grissino-Mayer, H.D., and Rearden, K.T. “The University of Tennessee GK-12 Earth Project: Enriching Earth Science in Rural Middle Schools through Research-based Activities on Climate and Environmental History.” Poster. Annual meeting of the Geological Society of America, 22–25 October 2006, Philadelphia, Pennsylvania.
- 2006 Speer, J.H., Grissino-Mayer, H.D., Miller, A., Lewis, D., Orvis, K.H., and Horn, S.P. “An Extended Dendroclimatic Reconstruction for the Dominican Republic from *Pinus occidentalis*.” Annual meeting of the Geological Society of America, 22–25 October

2006, Philadelphia, Pennsylvania.

- 2006 Horn, S.P. “Charcoal Evidence of Long-Term Fire History in Great Smoky Mountains National Park, U.S.A. Third International Fire Ecology and Management Congress, 13–17 November 2006, San Diego, California. (invited).
- 2006 Rearden, K.T., Lewis, D.B., Underwood, C.A., and Horn, S.P. “Looking Back in Time: The Mastodon Matrix Project.” Annual meeting of the Tennessee Science Teachers Association, Nashville, Tennessee.
- 2007 Horn, S.P., Orvis, K.H., Schultz, B., and Metcalf, G. “Research in the Classroom: The University of Tennessee GK-12 Earth Project.” Poster. Annual GK-12 meeting, American Association for the Advancement of Science and NSF, Washington, D.C.
- 2007 Underwood, C.A., van de Gevel, S., Metcalf, G.G., Headrick, V., and Horn, S.P. “Using Mastodon Matrix to Teach Earth Science to Middle School Students.” Poster. Annual meeting of the Association of American Geographers, 17–21 April 2007, San Francisco, California.
- 2007 Horn, S.P., Orvis, K.H., Champion, L.J., Grissino-Mayer, H.D., Harden, C.P., Kah, L.C., Mora, C.I., Sumrall, C.D., and Rearden, K.T. “Bringing University Research to Rural Middle Schools in East Tennessee: The University of Tennessee GK-12 Earth Project.” Poster. Annual meeting of the Association of American Geographers, 17–21 April 2007, San Francisco, California.
- 2007 Lane, C.S., Mora, C.I., Horn, S.P., and Orvis, K.H. “Paleolimnological Evidence of Late Holocene Precipitation Variability in the Dominican Republic and its Possible Impacts on Prehistoric Human Populations.” Annual meeting of the Association of American Geographers, 17–21 April 2007, San Francisco, California.
- 2007 Orvis, K.H. and Horn, S.P. “Caveat Investigator: Improving Stratigraphic Control of Sediment Core Profiles.” Annual meeting of the Association of American Geographers, 17–21 April 2007, San Francisco, California.
- 2007 Graham, J.E., Horn, S.P., and Arford, M.R. “A High Resolution Macroscopic Charcoal Record from Laguna Martínez, Costa Rica.” Poster. Annual meeting of the Association of American Geographers, 17–21 April 2007, San Francisco, California.
- 2007 Taylor, Z.P., Lane, C.S., Horn, S.P., Mora, C.I., and Finkelstein, D. “Lake Sediments as Archives of Spatially Varying Terrestrial Carbon Production: A High-Resolution Test Using Surface Sediments From a Small Farm Pond in West Tennessee.” Poster. Annual meeting of the Association of American Geographers, 17–21 April 2007, San Francisco, California.
- 2007 Thomason, J.M., Lane, C.S., Horn, S.P., and Orvis, K.H. “Modern and Fossil Ostracods and Charophytes in Lake Sediments from Las Lagunas, Dominican Republic. Poster. Annual meeting of the Association of American Geographers, 17–21 April 2007, San Francisco, California.
- 2007 Horn, S.P., Lane C.S., Mora, C.I., Orvis, K.H., and Taylor, Z.P. “Paleoecological Evidence of Early Agriculture and Landscape Change in Costa Rica and the Dominican Republic: Approaches to Improve Spatial Resolution.” Annual meeting of the Society of American Archaeologists, 25–29 April 2007, Austin, Texas (invited).
- 2007 Schlachter, K.J., Grissino-Mayer, H.D., and Horn, S.P. “Growth Rings in Stems of *Vaccinium consanguineum* in the High Elevation Páramos of Costa Rica.” Poster. Annual meeting of the Rocky Mountain Division of the Association of American

Geographers, 28–29 September 2007, Denver, Colorado.

- 2007 Underwood, C.A., Hass, A., and Horn, S.P. “Using Soil and Sediment Charcoal as a Proxy for the Reconstruction of Fire Regimes in Great Smoky Mountains National Park, U.S.A.” Annual meeting of the Southern Appalachian Man and the Biosphere, 23–24 October 2007, Johnson City, Tennessee.
- 2007 Hollenbach, K.D., Angst, M.G., Duncan, J., Guymon, G.L., Meeks, S.C., Mulholland, S.C., Horn, S., and Sherwood, S.C. “Assessing Archaeological Sites and the Preservation of Macrobotanical Remains: Recent CESU/NPS Archaeology at the University of Tennessee.” Annual meeting of the Southern Appalachian Man and the Biosphere, 23–24 October 2007, Johnson City, Tennessee.
- 2007 Hart, J.L., Horn, S.P., and Grissino-Mayer, H.D. “Fire History Reconstruction From Soil Charcoal in a Mesic Hardwood Forest on the Cumberland Plateau. Annual meeting of the Southeastern Division of the Association of American Geographers, 18–20 November 2007, Charleston, South Carolina.
- 2008 Hamilton, J., Shroat-Lewis, R., Van de Gevel, S., Lewis, D., Tillet, B., and Horn, S. “Sharing Fellows’ Research and Doing Research with Middle School Students: Examples from the University of Tennessee GK-12 Earth Project.” Poster. Annual NSF GK-12 Meeting, Washington, DC.
- 2008 Horn, S.P. and Orvis, K.H. “Fire History from Sedimentary Charcoal in Satellite and Emerald Ponds, Great Abaco Island, The Bahamas.” Annual meeting of the Association of American Geographers, 15–19 April 2008, Boston, Massachusetts.
- 2008 Albritton, J. and Horn, S.P. “Fire History from Soil Charcoal in Montane Rainforests of the Cordillera de Talamanca, Costa Rica.” Annual meeting of the Association of American Geographers, 15–19 April 2008, Boston, Massachusetts.
- 2008 Caffrey, M., Horn, S.P., and Orvis, K.H. “A Late Holocene Charcoal Record from Laguna Saladilla, Dominican Republic.” Annual meeting of the Association of American Geographers, 15–19 April 2008, Boston, Massachusetts.
- 2008 Arford, M.R., Schlachter, K., Graham, J., and Horn, S.P. “Evidence for a Local Fire Signal from Microscopic Charcoal in Lacustrine Sediments, Northwestern Costa Rica.” Annual meeting of the Association of American Geographers, 15–19 April 2008, Boston, Massachusetts.
- 2008 Graham, J.E., Arford, M.R., and Horn, S.P. “Macroscopic Charcoal Analysis of Lake Sediments at a Site of Early Maize Cultivation in Costa Rica.” Annual meeting of the Association of American Geographers, 15–19 April 2008, Boston, Massachusetts.
- 2008 Hass, A.L. and Horn, S.P. “Fire History from Sedimentary Charcoal in Gum Swamp, Great Smoky Mountains National Park.” Annual meeting of the Association of American Geographers, 15–19 April 2008, Boston, Massachusetts.
- 2008 Lane, C.S., Horn, S.P., Taylor, Z.P., Mora, C.I., and Orvis, K.H. “The Importance of Prehistoric Maize Cultivation in the Interior of Hispaniola.” Annual meeting of the Association of American Geographers, 15–19 April 2008, Boston, Massachusetts.
- 2008 Porinchu, D.F. and Horn, S.P. “Distribution of Sub-fossil Midges in Costa Rican Lakes: Exploratory Paleolimnological Analyses.” Annual meeting of the Association of American Geographers, 15–19 April 2008, Boston, Massachusetts.
- 2008 Lewis, D.B., Shroat-Lewis, R.A., and Horn, S.P. “Big Science in the Classroom: Using Integrated Ocean Drilling Program Samples in GK-12 Activities.” Annual meeting of the

Association of American Geographers, 15–19 April 2008, Boston, Massachusetts.

- 2008 Orvis, K.H., Horn, S.P., Rearden, K.T., and Champion, L.J. “Professional Benefits of GK-12 Participation for Fellows Engaged with Middle School Science Curricula in Rural East Tennessee.” Annual meeting of the Association of American Geographers, 15–19 April 2008, Boston, Massachusetts.
- 2008 Slayton, I. and Horn, S.P. “The Diet of An Endangered Mammal at the Edge of its Range: Baird’s Tapir (*Tapirus bairdii*) in the Chirripó Páramo of Costa Rica.” Poster. Annual meeting of the Association of American Geographers, 15–19 April 2008, Boston, Massachusetts.
- 2008 Valente, M.J., Lewis, D.B., and Horn, S.P. “Pollen Trapping as a Tool for Introducing Middle School Students to Pollen Analysis for Paleoenvironmental Reconstruction.” Poster. Annual meeting of the Botanical Society of America, 26–30 July 2008, Vancouver, BC, Canada.
- 2008 Shroat-Lewis, R., Sumrall, C., Cordell, L., and Horn, S.P. “Can You Dig It? Using Paleontology in the GK-12 Classroom to Develop Student Research and Communication Skills.” Annual meeting of the Geological Society of America, 5–9 October 2008, Houston, Texas.
- 2009 Woods, W.I., M. Sanchez Pereira, S.P. Horn, L. Rebellato, and A. Alvarado. Costa Rica’s Anthropogenic *Tierras Negras*?? Annual meeting of the Conference of Latin Americanist Geographers, 7–9 January 2009, Granada, Nicaragua.
- 2009 Valente, M.J., Horn, S.P., Nájera, A., Lane, C.S., and Taylor, Z.P. “Paleoecology of an Endemism Hotspot: Evidence from Poza and Marsh Sediments of Cuatrociénegas, Mexico.” Poster. Biennial meeting of the International Biogeography Society, 8–12 January 2009, Mérida, Mexico.
- 2009 Horn, S.P., Hass, A.L., and Grissino-Mayer, H.D. “Charcoal in Soils and Sediments as Evidence of Long-term Fire History in Great Smoky Mountains National Park.” Second Great Smoky Mountains National Park Science Colloquium, 20 March 2009, Gatlinburg, Tennessee.
- 2009 Underwood, C.A., and Horn, S.P. “Anthropogenic Impacts on Fire and Forest History in Native Yellow Pine and Mixed Hardwood-Pine Communities of Great Smoky Mountains National Park.” Second Great Smoky Mountains National Park Science Colloquium, 20 March 2009, Gatlinburg, Tennessee.
- 2009 Horn, S.P., and Orvis, K.H. “Fire History from Sedimentary Charcoal at Laguna Culebrillas, Ecuador.” Annual meeting of the Association of American Geographers, 22–27 March 2009, Las Vegas, Nevada.
- 2009 Taylor, Z.P., Horn, S.P., and Finkelstein, D.B. “Searching for Spatial Variability in Proxy Signals of Prehistoric Agriculture Using a Network of Lake-Sediment Cores.” Annual meeting of the Association of American Geographers, 22–27 March 2009, Las Vegas, Nevada.
- 2009 Lane, C.S., Horn, S.P., Orvis, K.H., and Thomason, J. “Sedimentary Evidence of Little Ice Age Aridity from the Dominican Republic.” Annual meeting of the Association of American Geographers, 22–27 March 2009, Las Vegas, Nevada.
- 2009 Caffrey, M., Horn, S.P., Orvis, K.H., and Haberyan, K.A. “A Reconstruction of Coastal Paleoenvironmental Change from Laguna Saladilla, Dominican Republic.” Poster. Annual meeting of the Association of American Geographers, 22–27 March 2009, Las

Vegas, Nevada.

- 2009 Valente, M.J., Taylor, Z.P., Lewis, D.B., and Horn, S.P. “Engaging Middle School Students in Quaternary Paleoenvironmental History: Lessons from the University of Tennessee GK-12 Earth Project.” Poster. Annual meeting of the Association of American Geographers, 22–27 March 2009, Las Vegas, Nevada.
- 2009 Harley, G.L., Hamilton, J.L., Sakulich, J., Valente, M.J., Metcalf, G., Tillett, B., and Horn, S.P. “The GK-12 Earth Project at the University of Tennessee: Integrating Fellows’ Research into Middle School Classrooms.” Poster. Annual NSF GK-12 Meeting, March 2009, Washington, DC.
- 2009 Horn, S.P., Valente, M.J., Taylor, Z.P., Caffrey, M.A., Underwood, C.A., Lane, C.S., and Lewis, D.B. “Educational Outreach on Pollen and Other Proxy Indicators in Sediment Records of Environmental Change.” Annual meeting of AASP – The Palynological Society, 26–30 September 2009, Johnson City, Tennessee.
- 2009 Caffrey, M.A. and Horn, S.P. “Lithium Heteropolytungstate (LST): A Non-toxic Heavy Liquid for Extracting Pollen and Other Palynomorphs from Lake Sediments and Soils.” Poster. Annual meeting of AASP—The Palynological Society, 26–30 September 2009, Johnson City, Tennessee.
- 2009 Valente, M.J., and Horn, S.P. “Reassessing the Cuatrociénegas Pollen Record Using Modern Analog Matching.” Annual meeting of AASP—The Palynological Society, 26–30 September 2009, Johnson City, Tennessee.
- 2009 Horn, S.P. and Haberyan, K.A. “From Shore to Summit: Paleolimnological Records Across Costa Rican Ecosystem Regions.” Annual meeting of the Southeastern Division of the Association of American Geographers, 21–24 November 2009, Knoxville, Tennessee.
- 2009 Harley, G.L., Grissino-Mayer, H.D., and Horn, S.P. “Vegetation Dynamics of Endangered Pine Rockland Communities in the Lower Florida Keys.” Poster. Annual meeting of the Southeastern Division of the Association of American Geographers, 21–24 November 2009, Knoxville, Tennessee.
- 2009 Spond, M., Grissino-Mayer, H., Horn, S., and Russell, K. Analyzing Repeat Photographs (1947–1981) by the Eminent Ecologist Alton A. Lindsey at El Malpais National Monument, New Mexico, USA. Poster. Annual meeting of the Southeastern Division of the Association of American Geographers, 21–24 November 2009, Knoxville, Tennessee.
- 2009 Taylor, Z.P., Horn, S.P., Mora, C.I., Orvis, K.H., and Cooper, L.W. “Paleoecological Evidence of Late-Holocene Forest Expansion in Central South America.” Annual meeting of the Southeastern Division of the Association of American Geographers, 21–24 November 2009, Knoxville, Tennessee.
- 2009 Valente, M.J., Horn, S.P., and Taylor, M.L. “The Reliability of AMS radiocarbon dating of *Nymphaea* Macrofossils For Chronological Control of Pond Profiles in Cuatro Ciénegas, Mexico.” Poster. Annual meeting of the Southeastern Division of the Association of American Geographers, 21–24 November 2009, Knoxville, Tennessee.
- 2009 Grissino-Mayer, H.D., Lafon, C.W., LaForest, L.B., Flatley, W.T., Horn, S.P., and Underwood, C.A. “History of Wildfires in Mixed Hardwood/Pine Forests of Great Smoky Mountains National Park, Tennessee, U.S.A.” 4th International Fire Ecology and Management Congress, 30 November–4 December, Savannah, Georgia.

- 2009 Taylor, Z.P., Finkelstein, D.B., and Horn, S.P. "Characterizing the Spatial and Temporal Variations in Organic Carbon Abundance and Stable Isotope Ratios in Lake Sediments Containing Evidence of Prehistoric Agriculture." Poster. Annual meeting of the American Geophysical Union, 14–18 December, San Francisco, California.
- 2010 Horn, S.P., Grissino-Mayer, H.D., Orvis, K.H., Slayton, I.A., Harley, G.L., Albritton, J.W., Malik, J., and Underwood, C.A. "Environmental History from Pond Sediments and Tree Rings in Pine Rocklands of the Florida Keys and Bahamas." Pine Rockland Conference 2010, 10–13 February, Miami, Florida.
- 2010 Albritton, J.W. and Horn, S.P. "A 1700-yr Record of Fire and Vegetation in Pine Rocklands on Big Pine Key, Florida. Pine Rockland Conference 2010, 10–13 February, Miami, Florida.
- 2010 Horn, S.P. and Grissino-Mayer, H.D. "Fire History from Soil Charcoal in Table Mountain Pine Stands in Great Smoky Mountains National Park, U.S.A." Annual meeting of the Association of American Geographers, 14–18 April 2010, Washington, D.C.
- 2010 Caffrey, M.A. and Horn, S.P. "Palynological Evidence of Late Holocene Vegetation History from Laguna Saladilla, Dominican Republic." Annual meeting of the Association of American Geographers, 14–18 April 2010, Washington, D.C.
- 2010 Underwood, C.A., Horn, S.P., LaForest, L.B., Grissino-Mayer, H.D. "Fire and Forest History in the Southern Appalachian Mountains, U.S.A.: Extending the Tree-Ring Record Using Soil-Charcoal Analysis." Annual meeting of the Association of American Geographers, 14–18 April 2010, Washington, D.C.
- 2010 Slayton, I.A., Horn, S.P., and Orvis, K.H. "Pollen Analysis at Emerald Pond, Great Abaco Island, The Bahamas." Annual meeting of the Association of American Geographers, 14–18 April 2010, Washington, D.C.
- 2010 Taylor, Z.P., Horn, S.P., and Finkelstein, D.B. "A Spatially-explicit, Multiple-proxy Reconstruction of Maize Agriculture from Laguna Zoncho, Costa Rica." Annual meeting of the Association of American Geographers, 14–18 April 2010, Washington, D.C.
- 2010 Harley, G.L., Grissino-Mayer, H.D., and Horn, S.P. "Slash Pine (*Pinus elliotii* var. *densa*) in the Lower Florida Keys: Climate Response and Fire History Reconstructions." Annual meeting of the Association of American Geographers, 14–18 April 2010, Washington, D.C.
- 2010 Spond, M., Grissino-Mayer, H.D., and Horn, S.P. "Assessing Ecological Changes with Repeat Photography at El Malpais National Monument, New Mexico, USA." Annual meeting of the Association of American Geographers, 14–18 April 2010, Washington, D.C.
- 2010 Watson, B., Horn, S.P., and Orvis, K.H. "A New Microscopic Charcoal Record from the Valle de las Morrenas, Costa Rica." Poster. Annual meeting of the Association of American Geographers, Washington, D.C. Poster. Annual meeting of the Association of American Geographers, 14–18 April 2010, Washington, D.C.
- 2010 Valente, M.J. and Horn, S.P. "Marsh Sediments from Cuatrociénegas, Mexico Indicate Succession of a Late-Pleistocene Paleo-poza to a Contemporary Marsh in the Chihuahuan Desert." Poster. Annual meeting of the Association of American Geographers, 14–18 April 2010, Washington, D.C.

- 2010 Ketteringham, D., Driskell, B., DeCorse, E.K., McDonough, J., and Horn, S.P. "Sharing Archaeological Research with School Children and the Public." Poster. Annual meeting of the Association of American Geographers, 14–18 April 2010, Washington, D.C.
- 2010 Schoen, A., Harley, G.L., and Horn, S.P. "Teaching Mountain Building and Tectonics with Reusable Modeling Compound." Poster. Annual meeting of the Association of American Geographers, 14–18 April 2010, Washington, D.C.
- 2010 Lafon, C., Grissino-Mayer, H., DeWeese, G., Aldrich, S., LaForest, L., Flatley, W., Hoss, J., Horn, S., and Underwood, C. "Fire History and Vegetation Changes in the Appalachian Mountains from Presettlement to Present." Southern Blue Ridge Fire Learning Network Meeting, 19–20 May 2010, Abingdon, Virginia.
- 2010 Taylor, Z.P., Finkelstein, D.B., and Horn, S.P. 2010. "Evaluating Isotopic and Geochemical Spatial Variability in Lake Sediments." Annual Goldschmidt Conference, 13–18 June 2010, Knoxville, Tennessee.
- 2010 Horn, S.P., Valente, M., Shroat-Lewis, R., Hamilton, J., Underwood, C.A., Taylor, Z.P., and Grissino-Mayer, H.D. 2010. "Involving K–12 Students and Teachers in Ecological and Paleocological Research: Examples and Suggestions from the University of Tennessee GK–12 Earth Project." Annual meeting of the Ecological Society of America, 1–6 August 2010, Pittsburg, Pennsylvania.
- 2010 Horn, S.P., Valente, M.J., Underwood, C.A., and Taylor, Z.P. "Using Macroscopic Soil Charcoal to Introduce Middle School Students and Teachers to Proxy Analysis of Geological Archives." Poster. Annual meeting of the Geological Society of America, 31 October–1 November 2010, Denver, Colorado.
- 2010 Horn, S.P., Arford, M.R., Schlachter, K.J., Graham, J.E., Haberyan, K.A., Sánchez, M. "Lake Sediment Records of Holocene Droughts, Indigenous Agriculture, and Prehispanic Vegetation and Fire Regimes from the Miravalles Lake District of Northwestern Costa Rica. Annual meeting of the Geological Society of America, 31 October–1 November 2010, Denver, Colorado (invited).
- 2010 Caffrey, M.A., Conyers, L.B., and Horn, S.P. "Using Ground Penetrating Radar (GPR) to Determine the Geophysical Properties of Submerged Sediments: An Example from a Caribbean Coastal Lake." Poster. Annual meeting of the Geological Society of America, 31 October–1 November 2010, Denver, Colorado.
- 2011 Valente, M.J., Hudson, P.J., and Horn, S.P. "Pre-Younger Dryas Collapse of Megafauna in Cuatro Ciénegas, Mexico, Inferred from Spores of Coprophilous Fungi in Late-Pleistocene Pond Sediments. Poster. Fifth Biennial Conference of the International Biogeography Society, 7–11 July, Irakleio, Crete, Greece.
- 2011 Caffrey, M.A., Horn, S.P., Haberyan, K.A., and Sullivan, D.G. "Paleolimnology of Laguna Saladilla, Dominican Republic, Inferred from Diatoms and Other Paleoenvironmental Proxies." Poster. ASLO (Association for the Sciences of Limnology and Oceanography) Aquatic Science Meeting, 13–18 February, San Juan, Puerto Rico.
- 2011 Horn, S.P., Underwood, C.A., and Grissino-Mayer, H.D. "Stand-Specific Records of Holocene Fires and Forest Composition in Great Smoky Mountains National Park, U.S.A." 14th Annual Discover Life in America ATBI Conference, 7–9 April 2011, Gatlinburg, Tennessee.

- 2011 Horn, S.P., and Hass, A.L. "Black Pond, Tennessee, Revisited: Charcoal, Legacy Sediment, and AMS-dated Macrofossils in a New Core from an Old Site." Annual meeting of the Association of American Geographers, 12–16 April 2011, Seattle, Washington.
- 2011 Boehm, M.S, Horn, S.P., and Leigh, D.S. "A Holocene Record of Vegetation and Fire from a "Southern Appalachian Bog:" Whiteoak Bottoms, North Carolina, U.S.A." Poster. Annual meeting of the Association of American Geographers, 12–16 April 2011, Seattle, Washington.
- 2011 Carmody, S. B., Horn, S.P., and Caffrey, M.A. "Palynological and Chemical Analyses of Pipe Residues as Evidence of Prehistoric Tobacco Use in the Southeastern U.S." Annual meeting of the Association of American Geographers, 12–16 April 2011, Seattle, Washington. (Paper presented by Horn).
- 2011 Schoen, A.R., Horn, S.P., Lane, C.S., and Clark, J.J. "A 7600 cal yr Paleoenvironmental Record from Laguna Tortuguero, Puerto Rico." Poster. Annual meeting of the Association of American Geographers, 12–16 April 2011, Seattle, Washington.
- 2011 Taylor, Z.P., Horn, S.P., Finkelstein, D.B. "Assessing the Impacts of Late-Holocene Droughts on Pre-Hispanic Agriculture in Southwestern Costa Rica." Annual meeting of the Association of American Geographers, 12–16 April 2011, Seattle, Washington.
- 2011 Underwood, C.A. and Horn, S.P. "Stand-Specific Records of Prehistoric Forest Composition and Fire History from Soil Charcoal in the Southern Appalachian Mountains, U.S.A." Annual meeting of the Association of American Geographers, 12–16 April 2011, Seattle, Washington.
- 2011 Haberyan, K.A., Horn, S.P., and Michels, A. "An Ecological Analysis of Lacustrine Diatoms in Costa Rica." Poster. North American Diatom Symposium, 14–18 September, Flathead Lake Biological Station, Montana.
- 2011 Horn, S.P., Taylor, Z.P., Sánchez-Periera, M., Cozadd, D., Anchukaitis, K.J., and Orvis, K.H. "Chiriquí Period Agriculture and Agricultural Decline at Laguna Vueltas, Costa Rica." Developing International Geoarchaeology Conference, 20–24 September 2011, Knoxville, Tennessee.
- 2011 Boehm, M.S., Horn, S.P., Leigh, D.S., and Li, Z-H. "A Terminal Pleistocene Record of Vegetation and Fire from Western North Carolina." Poster. Developing International Geoarchaeology Conference, 20–24 September 2011, Knoxville, Tennessee.
- 2012 Horn, S.P., Grissino-Mayer, H.D., Albritton, J.W., Malik, J., Underwood, C.A., Sharp, N.S., Massey, M.A., Kocis, D., Boehm, M.S., Harley, G.L., Orvis, K.H. "Charcoal Records of Long-Term Fire History in the National Key Deer Refuge, Florida Keys, U.S.A." Annual meeting of the Association of American Geographers, 24–28 February 2012, New York.
- 2012 Caffrey, M.A. and Horn, S.P. "A Regional Perspective on the Charcoal Record of the Northeastern Caribbean and the Role of Humans and Climate in Driving Fire Occurrence over the Holocene. Nystrom Award Session. Annual meeting of the Association of American Geographers, 24–28 February 2012, New York.
- 2012 Underwood, C.A., Valente, M.J., and Horn, S.P. "Fire in a Mesic Appalachian Forest: Soil Charcoal Evidence from Cades Cove, Great Smoky Mountains National Park, U.S.A." Annual meeting of the Association of American Geographers, 24–28 February



2012, New York.

- 2012 Boehm, M.S., Horn, S.P., and Leigh, D. "Late Pleistocene Vegetation and Fire in Western North Carolina, USA: Evidence from Whiteoak Bottoms." Annual meeting of the Association of American Geographers, 24–28 February 2012, New York.
- 2012 Ballard, J.P., Boehm, M.S., Meeks, S., and Horn, S.P. "New Charcoal Data from an Old Sediment Core: Microscopic Charcoal Quantification on Pollen Slides from Anderson Pond, Tennessee." Poster. Annual meeting of the Association of American Geographers, 24–28 February 2012, New York.
- 2012 Eads, J., Valente, M.J., Horn, S.P., and Minckley, T.A. "Macroscopic Charcoal Evidence of Fire at the Pleistocene-Holocene Transition in Cuatro Ciénegas, Mexico." Poster. Annual meeting of the Association of American Geographers, 24–28 February 2012, New York.
- 2012 Valente, M.J., Horn, S.P., and Minckley, T.A. "The Predictive Power of Chihuahuan Desert Modern Pollen Assemblages for Paleoecological Reconstructions." Annual meeting of the Association of American Geographers, 24–28 February 2012, New York.
- 2012 Wu, J., Porinchu, D.F., Horn, S.P., and Haberyan, K.A. "Development of a Midge-Based Inference Model to Assess Late Holocene Climate Change in Costa Rica." Annual meeting of the Association of American Geographers, 24–28 February 2012, New York.
- 2012 Horn, S.P., Grissino-Mayer, H.D., Albritton, J.W., Kocis, D.L., Malik, J., Underwood, C.A., Boehm, M.S., Harley, G.L., Sharp, N., Massey, M.A., Orvis, K.H., Hammett, M.L., and Greenlee, L.K. "Late Holocene Fire History from Charcoal in Pond Sediments in the National Key Deer Refuge, Florida Keys, U.S.A." Pine Rockland Conference Pine Rockland Conference, 14–15 June 2012, Homestead, Florida.
- 2012 Harley, G.L., Grissino-Mayer, H.D., Horn, S.P., and Bergh, C. "Tree-Ring Based Fire History and Fire-Climate Relationships in Pine Rocklands of the Lower Florida Keys, U.S.A." Pine Rockland Conference, 14–15 June 2012, Homestead, Florida.
- 2012 Grissino-Mayer, H.D., Horn, S.P., Orvis, K.H., Miller, A.J., and Lewis, D.B. "Bahamian Pine as a Proxy Record of Fire Activity in Pine Rockland Communities, Abaco Island, The Bahamas." Poster. Pine Rockland Conference, 14–15 June 2012, Homestead, Florida.
- 2012 Horn, S.P., Burgess, J.N., and Taylor, Z.P. "Within-basin Variations in Modern Pollen Assemblages in Neotropical Lakes." Annual meeting of AASP-The Palynological Society, 21–24 July 2012, Lexington, Kentucky.
- 2012 Carmody, S.B., Caffrey, M.A., Horn, S.P., and Lady, B.M. "Palynological and Chemical Analyses of Pipe Residues as Evidence of Prehistoric Plant Use in the Smoking Culture of the Southeastern U.S." Archaeological Sciences of the Americas Symposium, 5–6 October 2012, Nashville, Tennessee.
- 2012 Driese, S.G., Li, Z.H., Cheng, H., Stinchcomb, G.E., Kocis, J.J., Horn, S.P., and Boehm, M.S. "Speleothem Micromorphology Improves Interpretations of Floodplain Paleoclimate Records and Enhances Interpretations of the Timing and Structure of the Mid-Holocene Warm Period." Annual meeting of the Geological Society of America, 4–7 November 2012, Charlotte, North Carolina.
- 2012 Carmody, S.B., Caffrey, M.A., Horn, S.P., and Lady, B.M. "Prehistoric Plant Use and the Smoking Culture of the Southeastern U.S." Annual meeting of the Southeastern Archaeological Conference, 7–10 November 2012, Baton Rouge, Louisiana.

- 2012 Harley, G.L., Grissino-Mayer, H.D., and Horn, S.P. "Fire History and Forest Structure of an Endangered Subtropical Ecosystem in the Florida Keys, U.S.A." Poster. Annual meeting of the Southeastern Division of the Association of American Geographers, 18–20 November 2012, Asheville, North Carolina.
- 2013 Horn, S.P., Orvis, K.H., Haberyan, K.A., and Lane, C.S. "An 18,200 Year Record of Climate and Environment from a Glacial Lake in Costa Rica." Annual meeting of the Association of American Geographers, 9–13 April 2013, Los Angeles, California.
- 2013 Lane, C.S., Horn, S.P., Kerr, M., and Orvis, K.H. "Compound-Specific Hydrogen Isotope Evidence of Late-Quaternary Paleohydrology in the Highlands of Costa Rica." Annual meeting of the Association of American Geographers, 9–13 April 2013, Los Angeles, California.
- 2013 Valente, M.J., Minckley, T., and Horn, S.P. "Stratigraphic Evidence of Hydrological Variability in Mexico's Cuatro Ciénegas Basin since the Late Pleistocene." Annual meeting of the Association of American Geographers, 9–13 April 2013, Los Angeles, California.
- 2013 Minckley, T., Valente, M.J., and Horn, S.P. "Vegetation Change in the Chihuahuan Desert during the Younger Dryas Chronozone." Annual meeting of the Association of American Geographers, 9–13 April 2013, Los Angeles, California.
- 2013 Underwood, C.A. and Horn, S.P. "Holocene Forest Composition and Fire History in the Southern Appalachian Mountains, U.S.A." Annual meeting of the Association of American Geographers, 9–13 April 2013, Los Angeles, California.
- 2013 Wu, Jiaying, Porinchu, D.F., Horn, S.P., and Haberyan, K.A. "A Chironomid-based Reconstruction of Late Holocene Environmental Change in Southern Costa Rica." Annual meeting of the Association of American Geographers, 9–13 April 2013, Los Angeles, California.
- 2013 Ballard, J., Li, Z.H., Lane, C.S., Horn, S.P., Boehm, M.S., and Leigh, D.S. "Stable Isotope Analyses of Sediments from Southeastern U.S. Wetlands Indicate Significant Hydroclimate Shifts From the Late Quaternary to the Holocene." Poster. Annual meeting of the Association of American Geographers, 9–13 April 2013, Los Angeles, California.
- 2013 Eads, J., Valente, M.J., Horn, S.P., and Minckley, T.A. "A High-resolution Record of Latest Holocene Marsh Fires from Cuatro Ciénegas, Mexico." Poster. Annual meeting of the Association of American Geographers, 9–13 April 2013, Los Angeles, California.
- 2013 Carmody, S.B., Caffrey, M.A., Horn, S.P., and Lady, B.M. "Palynological and Chemical Analyses of Pipe Residues as Evidence of Prehistoric Tobacco Use in the Southeastern U.S." Annual meeting of the Society of American Archaeologists, 3–7 April 2013, Honolulu, Hawaii.
- 2013 Underwood, C.A., and Horn, S.P. "Millennial-Scale Fire and Forest History in the Southern Blue Ridge. Southern Blue Ridge Fire Learning Network Meeting, 21–23 May 2013, Unicoi State Park, Georgia.
- 2013 Horn, S.P., Sánchez, M., and Sanford, Jr., R.L. "Footprints in the Forest: Paleocological and Archaeological Evidence of Prehistoric Human-Environment Interactions at Las Cruces Biological Station, Costa Rica." 50<sup>th</sup> Anniversary Meeting of the Association of Tropical Biology and the Organization for Tropical Studies, 23–27 June, San José, Costa

Rica.

- 2013 Haberyan, K.A. and Horn, S.P. "Do These Two *Aulacoseira* Taxa from Costa Rica Represent Undescribed Species?" Poster. XXII North American Diatom Symposium, 13–17 August 2013, Bar Harbor, Maine.
- 2013 Horn, S.P., Underwood, C.A., Hass, A.L., Boehm, M.S., Valente, M.J., Grissino-Mayer, H.D., Leigh, D.S., Li, Z.-H., Lafon, C.. "Appalachian Fire History from Charcoal in Soils and Sediments." Invited Plenary Talk. Conference on Wildland Fire in the Appalachians: Discussions Among Managers and Scientists, 8–10 October 2013, Roanoke, Virginia.
- 2013 Wu, Jiaying, Porinchu, D.F., Horn, S.P., and Haberyan, K.A. "A Chironomid-based Reconstruction of Late Holocene Climate Change in Southern Costa Rica." Annual meeting of the Southeastern Division of the Association of American Geographers, 24–26 November 2013, Roanoke, Virginia.
- 2014 Horn, S.P. "Pollen, Spores, and Charcoal in the Surface Sediments of a Glacial Lake." Symposium on Mapping Outside the Lines: Geography as a Nexus for Interdisciplinary and Collaborative Research, 21–22 February 2014, Knoxville, Tennessee.
- 2014 Bleakney, S.A., Kerr, M.T., Horn, S.P., and Lane, C.S. "Stable Isotopic Signatures in Charcoal from a Costa Rican Sediment Core." Poster. Symposium on Mapping Outside the Lines: Geography as a Nexus for Interdisciplinary and Collaborative Research, 21–22 February 2014, Knoxville, Tennessee.
- 2014 Kerr, M.T., Horn, S.P., and Lane, C.S. "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." Symposium on Mapping Outside the Lines: Geography as a Nexus for Interdisciplinary and Collaborative Research, 21–22 February 2014, Knoxville, Tennessee.
- 2014 Horn, S.P., Orvis, K.H., and Haberyan, K.A. "Glacial-age Fires in Costa Rican Páramo: Evidence for La Chonta Bog, Cordillera de Talamanca, Costa Rica." Annual meeting of the Association of American Geographers, 8–12 April 2014, Tampa, Florida.
- 2014 Boehm, M.S., Horn, S.P., and Hyatt, J.A. "A Holocene Record of Fire from the Southeastern Coastal Plain." Annual meeting of the Association of American Geographers, 8–12 April 2014, Tampa, Florida.
- 2014 Ballard, J.P., Horn, S.P., Lane, C.S., Li, Z.-H., Driese, S.G., and Lowell, T.V. "Late Glacial Fire and Nitrogen Dynamics at Lacustrine Sites in Alabama and Michigan: Evidence of an Acid Rain Event? Annual meeting of the Association of American Geographers, 8–12 April 2014, Tampa, Florida.
- 2014 Johanson, E.N., Boehm, M.S., and Horn, S.P. "Stable Carbon and Nitrogen Isotope Analysis as an Indicator of Late-Holocene Aridity in the Valle de Bao, Cordillera Central, Dominican Republic." Annual meeting of the Association of American Geographers, 8–12 April 2014, Tampa, Florida.
- 2014 Potter, R., Li, Y., Horn, S.P., and Orvis, K.H. "Cosmogenic Nuclide Constraints on Late Quaternary Glacial Advances in the Cordillera de Talamanca, Costa Rica." Annual meeting of the Association of American Geographers, 8–12 April 2014, Tampa, Florida.
- 2014 Lemieux, P., Valente, M.J., Horn, S.P., Li, Z.-H., and Driese, S.G. "Pollen in Stalagmites and Flowstones from Caves in the Eastern U.S." Poster. Annual meeting of the Association of American Geographers, 8–12 April 2014, Tampa, Florida.

- 2014 Haberyan, K.A., Horn, S.P., Orvis, K.H., and Lane, C.S. “An 18,200 Year Diatom Record from a Glacial Lake in Costa Rica.” Poster. Biennial meeting of the American Quaternary Association, 7–10 August 2014, Seattle, Washington.
- 2014 Lane, C.S., Horn, S.P., and Kerr, M.T. “Compound-Specific Hydrogen Isotope Evidence of the Terminal Classic Drought from Hispaniola and Possible Impacts on Caribbean Societies.” Poster. Annual meeting of the Geological Society of America, 19–22 October 2014, Vancouver, British Columbia.
- 2014 Potter, R.S., Li, Y., Horn, S.P., and Orvis, K. “Cosmogenic Nuclide Constraints on Late Quaternary Glacial Advances in the Cordillera de Talamanca, Costa Rica.” Annual meeting of the Geological Society of America, 19–22 October 2014, Vancouver, British Columbia.
- 2014 Li, Z.-H., Driese, S.G., Stinchcomb, G.E., Kocis, J.J., Horn, S.P., Buckles, J., Rowe, H., and Hai, C. “Earlier Onset of ‘4.2 ka Event’ in the Eastern U.S. is Possible at 4.5 ka: Middle Holocene Mega-Droughts Identified Using Stable Isotopes and Micromorphology of Speleothems and  $\delta^{13}\text{C}$  of Floodplain SOM.” Annual meeting of the Geological Society of America, 19–22 October 2014, Vancouver, British Columbia.
- 2014 Ballard, J.P., Horn, S.P., Driese, S., Lane, C., Li, Z.-H., and MacLennan, E. “A Late Glacial and Holocene Paleofire Record from Cahaba Pond, Alabama.” Annual meeting of the Southeastern Archaeology Conference, 12–15 November 2014, Greenville, South Carolina.
- 2014 Horn, S.P. “Soil Charcoal Evidence of Fire History in an Oak Ridge, Tennessee, Forest.” Annual meeting of the Southeastern Division of the Association of American Geographers, 23–25 November 2014, Athens, Georgia.
- 2014 Kerr, M.T., Grissino-Mayer, H., Horn, S.P., and Stachowiak, L.A. “Tropical Dendrochronology: Growth Zones in a Páramo Shrub as an Indicator of Fire History.” Annual meeting of the Southeastern Division of the Association of American Geographers, 23–25 November 2014, Athens, Georgia.
- 2014 Potter, R.S., Li, Y., Horn, S.P., and Orvis, K.. “Age Constraints of Glacial Events in Costa Rica using Chlorine-36 Cosmogenic Exposure Dating.” Poster. Annual meeting of the Southeastern Division of the Association of American Geographers, 23–25 November 2014, Athens, Georgia.
- 2015 Underwood, C.A. and Horn, S.P. “Forest History from Soils and Sediments.” Invited Plenary Talk. 18th Biennial Southern Silvicultural Research Conference, 3–5 March 2015, Knoxville, Tennessee.
- 2015 MacLennan, E.M., Boehm, M.S., and Horn, S.P. “Charcoal Evidence of Fire History from Keener Bog, Georgia.” Poster. Annual meeting of the Southeastern Section of the Geological Society of America, 19–20 March 2015, Chattanooga, Tennessee.
- 2015 Horn, S.P. and Albritton, J.W. “Soil Charcoal Evidence of Fire History from the Chirripó Páramo of Costa Rica.” Poster. Annual meeting of the Association of American Geographers, 21–25 April 2015, Chicago, Illinois.
- 2015 Kerr, M.T., Bissett, T.G., Horn, S.P., Lane, C.S., and Anderson, D.G. “Archaeological Freshwater Mussel Shells as a Paleoclimate Proxy in Middle Tennessee: Potentials and Limitations.” Poster. Annual meeting of the Association of American Geographers, 21–25 April 2015, Chicago, Illinois.

- 2015 Boehm, M., Horn, S.P., and Hyatt, J.A. "Fire History on the Southeastern Coastal Plain: A 6000 Year Charcoal Record from Lake Balboa, Georgia." Poster. Annual meeting of the Association of American Geographers, 21–25 April 2015, Chicago, Illinois.
- 2015 Johanson, E.N., Horn, S.P., and Lane, C.S. "Late Holocene Paleoenvironments and Human-Environment Interactions from Southern Pacific Costa Rica: Two New Records." Poster. Annual meeting of the Association of American Geographers, 21–25 April 2015, Chicago, Illinois.
- 2015 Cecil, J.A., Johanson, E.N., and Horn, S.P. "Agricultural Practices Around Laguna Danta, Costa Rica: An 800 Year Reconstruction Based Upon Macroscopic Charcoal Analysis." Poster. University of Tennessee Discovery Day Undergraduate Research Symposium, 25 August 2015, Knoxville, Tennessee.
- 2015 Driese, S.G., Horn, S.P., Ballard, J.P., Li, Z.-H., and Boehm, M.S. "Micromorphological Interpretation of Late Pleistocene to Holocene Paleoenvironmental History of Anderson Pond, Tennessee, USA." Poster. Annual meeting of the Geological Society of America, 1–4 November 2015, Baltimore, Maryland.
- 2015 Horn, S.P., Ballard, J.P., Boehm, M.S., Hass, A., MacLennan, E., Driese, S., Leigh, D.S., and Li, Z-H. "Fire, Climate, and People in the Appalachians: Evidence from Sediment Records." Consortium of Appalachian Fire Managers and Scientists, Fire History Workshop, 20–22 October 2015, Blacksburg, Virginia.
- 2015 Caudle, K., Hass, A., and Horn, S.P. "Assessing Processing Methods for Efficient and Accurate Macroscopic Charcoal Analysis." Poster. Annual meeting of the Southeastern Division of the Association of American Geographers, 22–24 November 2015, Pensacola, Florida.
- 2015 Grissino-Mayer, H.D. and Horn, S.P. "Evidence of Late Holocene Paleoflood Events from Dendrochronological, Palaeolimnological, and Fluvial Sedimentary Records in the Tennessee Valley." TVA-EPRI Paleoflood Workshop, 9–10 December 2015, Chattanooga, Tennessee.
- 2015 Li, Y., Potter, R., Horn, S., and Orvis, K.H. "Late Quaternary Glacial Chronology in the Cordillera de Talamanca, Costa Rica Investigated Using Cosmogenic C1-36 Surface Exposure Dating. Poster. Annual meeting of the American Geophysical Union, 14–18 December 2015, San Francisco, California.
- 2016 Horn, S.P., Sánchez, M., Lane, C.S., Taylor, Z.P., Kerr, M.T., Johanson, E.N., and Cecil, J.A. "Late Holocene Fires in Costa Rica: Patterns and Drivers." Annual meeting of the American Association of Geographers, 28 March–2 April 2016, San Francisco, California (invited).
- 2016 Boehm, M.S. and Horn, S.P. "Mid-Holocene Fires and Vegetation in Western Tennessee, USA." Annual meeting of the American Association of Geographers, 28 March–2 April 2016, San Francisco, California (invited).
- 2016 Kerr, M.T., Horn, S.P., and Lane, C.S. "Precipitation Variability Over the Past 2500 Years at Laguna Bonillita, Costa Rica." Annual meeting of the American Association of Geographers, 28 March–2 April 2016, San Francisco, California (invited).
- 2016 Tran, L.T., McKay, L., Horn, S.P., and Cyr, H. "A Multi-level Landscape/Landform Classification to Identify Possible Sites for Paleoflood Deposit Investigation." Fifth International Paleoflood Conference, 12–15 September 2016, Rapid City, South Dakota.

- 2016 McKay, L., Horn, S.P., Affholter, K.A., Cropper, S.C., Drumheller, S.K., Ellis, K.N., Fristoe, K., Hadjiharalambous, C.S., Lee, A.C., Jones, J., Steen, A.D., Sumrall, C.D. “Engaging Community College Transfer Students in Tennessee to Improve Recruitment, Retention and Success in 4-Year Geoscience Programs.” Annual meeting of the Geological Society of America, 25–28 September 2016, Denver, Colorado.
- 2016 Tanner, B.J., Horn, S.P., Boehm, M.S., Driese, S.G., Young, R.S., Ballard, J.P., Li, Z.-H., Lane, C.S., and Martin, L. “Radiocarbon Ages of Southern Appalachian Wetland Deposits Show Low Accumulation During the Middle Holocene.” Annual meeting of the Geological Society of America, 25–28 September 2016, Denver, Colorado.
- 2017 Fristoe, K., Hadjiharalambous, C.S., McKay, L., Horn, S., and Drumheller-Horton, S. “GEOPATHS: Assessing Engagement of Students and Faculty at Community Colleges to Enhance Recruitment to 4-Year Geoscience Programs.” Poster. NSF INCLUDES Conference on Multi-scale Evaluation in STEM Education, 23–24 February 2017, Knoxville, Tennessee.
- 2017 Horn, S.P., Lane, C.S., Johanson, E.N., Sánchez P., M., Taylor, Z.P., and Kerr, M.T. “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]. XI Congreso de la Red Centroamericana de Antropología [XI Congress of the Central American Anthropology Network], 27 February–3 March 2017, San José, Costa Rica.
- 2017 Kerr, M.T., Lane, C.S., and Horn, S.P. “Análisis Tipo Componente-Específico de los Isótopos Estables de Hidrógeno ( $\delta D$ ) de Núcleos de Sedimentos 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]. XI Congreso de la Red Centroamericana de Antropología [XI Congress of the Central American Anthropology Network], 27 February–3 March 2017, San José, Costa Rica (presented by S. Horn).
- 2017 Horn, S.P., Boehm, M.S., Johanson, E.N., MacLennan, E., and Lane, C.S. “A New Sediment Record from the Blue Ridge Mountains of North Carolina.” Annual meeting of the American Association of Geographers, 5–9 April 2017, Boston, Massachusetts.
- 2017 Boehm, M.S., Horn, S.P., Driese, S.G., and Lane, C.S. “Middle Holocene Vegetation, Climate, and Fire Dynamics at Henson Branch, Tennessee.” Annual meeting of the American Association of Geographers, 5–9 April 2017, Boston, Massachusetts.
- 2017 Johanson, E.N., Horn, S.P., and Lane, C.S. “Pre-Columbian Agriculture, Fire, and Spanish Contact: A 4300-year Record from Laguna Los Mangos, Costa Rica.” Annual meeting of the American Association of Geographers, 5–9 April 2017, Boston, Massachusetts.
- 2017 Kerr, M.T., Tieche, T.E., Horn, R.D., Bissett, T.G., Anderson, D.G., and Horn, S.P. “Sub-Annual Resolution Oxygen Isotope Analysis Reveals Season of Harvest in Archaeological Freshwater Mussel Shells from Middle Tennessee.” Annual meeting of the American Association of Geographers, 5–9 April 2017, Boston, Massachusetts.
- 2017 Taylor, Z.P., Lane, C.S., and Horn, S.P. “Hydrogen isotope evidence of climatic control on prehistoric agricultural activities in southern Costa Rica.” Annual meeting of the American Association of Geographers, 5–9 April 2017, Boston, Massachusetts.
- 2017 Lafon, C.W., Naito, A.T., Grissino-Mayer, H.D., Horn, S.P., and Waldrop, T.A. “Fire History of the Appalachian Mountains: A Synthesis.” Poster. Annual meeting of the American Association of Geographers, 5–9 April 2017, Boston, Massachusetts.

- 2017 Grissino-Mayer, H.D., Lafon, C.W., and Horn, S.P. “The Need for Fire History Research in the Southern Appalachian Mountains: Lessons from Gatlinburg.” Foothill Landscape Science Symposium, Chattahoochee-Oconee National Forest and Consortium of Appalachian Fire Managers and Scientists, 4 May 2017, Helen, Georgia.
- 2017 Metcalfe, S.E., Holmes, J.A., Burn, M.J., Lane, C.S. and Horn, S.P. “ Palaeolimnological records of climate change in the Central American–Intra-Americas Seas region over the last 2000 years.” Poster. 5<sup>th</sup> PAGES (Past Global Changes) Open Science Meeting, 9–3 May 2017, Zaragoza, Spain.
- 2017 Lafon, C.W., Naito, A.T., Grissino-Mayer, H.D., Horn, S.P., and Waldrop, T.A. “Synthesis of Appalachian Fire History.” Southern Blue Ridge Fire Learning Network, 16–18 May 2017, Hiawassee, Georgia.
- 2017 Horn, S.P., Boehm, M.S., and Ballard, J.P. “New Records of Long-Term Fire History from the Appalachian Highlands and Coastal Plain and Their Relevance to Management.” Poster. Southern Blue Ridge Fire Learning Network, 16–18 May 2017, Hiawassee, Georgia.
- 2017 Grissino-Mayer, H.D., Lafon, C.W., and Horn, S.P. “The Value of Fire History Research in the Southern Appalachians in an Era of Increasing Fire Risk.” Poster. Southern Blue Ridge Fire Learning Network, 16–18 May 2017, Hiawassee, Georgia.
- 2017 Lafon, C.W., Naito, A.T., Grissino-Mayer, H.D., Horn, S.P., and Waldrop, T.A. “Fire History of the Appalachian Mountains: A Synthesis.” Poster. Southern Blue Ridge Fire Learning Network, 16–18 May 2017, Hiawassee, Georgia.
- 2017 Lafon, C.W., Naito, A.T., Grissino-Mayer, H.D., Horn, S.P. and Waldrop, T.A. “Fire History of the Appalachian Mountains: A Synthesis.” Consortium of Appalachian Fire Managers and Scientists Webinar, 13 June 2017, College Station, Texas.
- 2017 Blentlinger, L.R., Horn, S.P., Johanson, E.N., Kerr, M.T., Cecil, J.A., Lane, C.S., and Boehm, M.S. “Reconstructing Past Environments in Costa Rica through Analyses of Wetland Sediments.” University of Tennessee Discovery Day Undergraduate Research Symposium, 31 August 2017, Knoxville, Tennessee.
- 2017 Grissino-Mayer, H.D., Lafon, C.W., and Horn, S.P. “Fire History in the Yellow Pine and Mixed Pine/Hardwood Forests of the Southern Appalachian Mountains.” Oak Woodlands and Forests Fire Consortium Symposium, 24–25 September 2017, Knoxville, Tennessee.
- 2017 McKay, L.D., Cyr, H.J., Tran, L., and Horn, S.P. “Sedimentary Signatures of Holocene Flood Deposits in Upper Reaches of the Tennessee River.” Annual meeting of the Geological Society of America, 22–25 October 2017, Seattle, Washington.
- 2017 Drumheller, S.K., Sumrall, C.D., Gates, T.A., Steen, A.D., Horn, S.P., and McKay, L.D. Including Citizen and Student Scientists in Actualistic Taphonomic Research: the Good, The Bad, and the Smelly. Annual meeting of the Geological Society of America, 22–25 October 2017, Seattle, Washington.
- 2017 Cecil, J. A., Horn, S.P., Johanson, E.N., Boehm, M.S., Blentlinger, L.R. “Late Holocene Fire History from Wetland Sedimentary Charcoal in the Central Valley of Costa Rica.” Poster. Annual meeting of the Southeastern Division of the Association of American Geographers, 19–20 November 2017, Starkville, Mississippi.

- 2017 Blentlinger, L.R., Horn, S.P., Johanson, E.N., Kerr, M.T., Lane, C.S., Boehm, M.S., and Cecil, J.A. "Proxy Analyses of Wetland Sediments in Costa Rica." Poster. Annual meeting of the Southeastern Division of the Association of American Geographers, 19–20 November 2017, Starkville, Mississippi.
- 2017 Tran, L., Horn, S.P., McKay, L., and Cyr, H.J. "A Paleoflood Desktop Survey On The Upper Tennessee River." Annual meeting of the Southeastern Division of the Association of American Geographers, 19–20 November 2017, Starkville, Mississippi.
- 2017 Fritz, B., Tran, L., Horn, S., and McKay, L. "Detecting Sinkholes with Potential for the Deposit of Paleoflood Sediments in the Upper Mississippi River Basin." Poster. Annual meeting of the Southeastern Division of the Association of American Geographers, 19–20 November 2017, Starkville, Mississippi.
- 2017 Underwood, C.A., Horn, S.P., and Grissino-Mayer, H.D. "Harbingers of Chimney Tops 2: Ancient Fires in Great Smoky Mountains National Park." Seventh AFE International Fire Congress, 28 November–2 December 2017, Orlando, Florida.
- 2017 Grissino-Mayer, H.D., Lafon, C.W., and Horn, S.P. "Immediate Relevance of Fire History Research for Understanding Wildfire Risk in the Wildland-Urban Interface." Seventh AFE International Fire Congress, 28 November–2 December 2017, Orlando, Florida.
- 2017 Lafon, C.W., Naito, A.T., Grissino-Mayer, H.D., Horn, S.P. and Waldrop, T.A. "Temporal and Spatial Patterns of Fire in the Southern Appalachian Mountains." Seventh AFE International Fire Congress, 28 November–2 December 2017, Orlando, Florida.
- 2018 Horn, S.P., Johanson, E.N., Haberyan, K.A., Boehm, M.S., Johanson, J.L., Sánchez P., M., and Hernández V., M. "Limnological Observations at Five Costa Rican Lakes." 3rd Biennial Geography Symposium: Mapping Outside the Lines: Geography as a Nexus for Interdisciplinary and Collaborative Research, 15–16 February 2018, Knoxville, Tennessee.
- 2018 Kerr, M.T., Horn, S.P., Grissino-Mayer, H.D., and Stachowiak, L.A. "Annual growth zones in stems of *Hypericum irazuense*: a new fire proxy in highland Costa Rica." 3rd Biennial Geography Symposium: Mapping Outside the Lines: Geography as a Nexus for Interdisciplinary and Collaborative Research, 15–16 February 2018, Knoxville, Tennessee.
- 2018 Collins, E., and Horn, S.P. "Comparing Size Measurements of Prehistoric Maize Pollen Grains in Costa Rica and the Dominican Republic." Poster. 3rd Biennial Geography Symposium: Mapping Outside the Lines: Geography as a Nexus for Interdisciplinary and Collaborative Research, 15–16 February 2018, Knoxville, Tennessee.
- 2018 MacLennan, E.M., Lu, X., Lampley, J.A., VanderYacht, A.L., Webb, D.H., Alsamadisi, A., McKee, J.J., Boehm, M.S., Underwood, C.A., and Horn, S.P. "Soil Charcoal in a Deciduous Forest in East Tennessee." Poster. 3rd Biennial Geography Symposium: Mapping Outside the Lines: Geography as a Nexus for Interdisciplinary and Collaborative Research, 15–16 February 2018, Knoxville, Tennessee.
- 2018 Blentlinger, L., and Horn, S.P. "Experiments with Magnetic Susceptibility." Poster. 3rd Biennial Geography Symposium: Mapping Outside the Lines: Geography as a Nexus for Interdisciplinary and Collaborative Research, 15–16 February 2018, Knoxville, Tennessee.



- 2018 Grissino-Mayer, H.D., Lafon, C.W., and Horn, S.P. "Fire History, the Wildland-Urban Interface, and Future Wildfires in the Southeastern U.S." Annual meeting of the Association of Southeastern Biologists, 28–31 March 2018, Myrtle Beach, South Carolina.
- 2018 Perilla-Castillo, P., Horn, S.P., Cyr, H.J., Boehm, M.S., and McKay, L.D. "Event Layers in Cores from the Tennessee River Floodplain: Description, Interpretation, and Implications." Annual meeting of the Southeastern Section of the Geological Society of America, 12–13 April 2018, Knoxville, Tennessee.
- 2018 McKay, L.D., Horn, S.P., Drumheller, S.K., Sumrall, C., Ellis, K.N., and Steen, A.D. "Engaging community college transfer students in experiential learning at the University of Tennessee." Annual meeting of the Southeastern Section of the Geological Society of America, 12–13 April 2018, Knoxville, Tennessee.
- 2018 Horn, S.P., Cyr, H.J., Boehm, M.S., Perilla-Castillo, P., McKay, L.D., and Tran, L. "Stratigraphic Evidence of Late Holocene Flooding Along the Tennessee River." Annual meeting of the American Association of Geographers, 10–14 April 2018, New Orleans, Louisiana.
- 2018 Boehm, M.S., Horn, S.P., Lane, C.S., Hyatt, J.A. "A Latest-Pleistocene and Holocene Record of Shifting Environmental Conditions on the Southeastern Coastal Plain, Georgia, USA." Annual meeting of the American Association of Geographers, 10–14 April 2018, New Orleans, Louisiana.
- 2018 Kerr, M.T., Horn, S.P., and Lane, C.S. "A 10,000 Year Hydrogen Isotope Record of Precipitation Variability from Highland Costa Rica." Annual meeting of the American Association of Geographers, 10–14 April 2018, New Orleans, Louisiana.
- 2018 MacLennan, E., Horn, S.P., Kerr, M.T., Lane, C.S., and Ellis, K. "A Compound-Specific Hydrogen Isotope Record of Precipitation from Coastal North Hispaniola." Annual meeting of the American Association of Geographers, 10–14 April 2018, New Orleans, Louisiana.
- 2018 Fritz, B.I., Tran, L., Horn, S.P., McKay, L. "Detecting Sinkholes with Potential for the Deposit of Paleoflood Sediments in the Upper Tennessee River Basin." Annual meeting of the American Association of Geographers, 10–14 April 2018, New Orleans, Louisiana.
- 2018 Cecil, J., Reed, E., Blentlinger, L., Prince, A., and Horn, S.P. "Soil Charcoal Carbon Pools and Charcoal Distribution in a Clear-cut Appalachian Forest." Poster. Annual meeting of the American Association of Geographers, 10–14 April 2018, New Orleans, Louisiana.
- 2018 Johanson, E.N., Horn, S.P., Lane, C.S., and Cecil, J. "Fire History Across the Little Ice Age in Southern Pacific Costa Rica." Poster. Annual meeting of the American Association of Geographers, 10–14 April 2018, New Orleans, Louisiana.
- 2018 Lafon, C.W., Flatley, W.T., Naito, A.T., Grissino-Mayer, H.D., Horn, S.P., and Waldrop, T.A. 2018. "Evaluating the Mesophication Concept Through Reconstructions of Fire History and Vegetation Dynamics in the Appalachian Mountains." Annual meeting of the Ecological Society of America, 5–10 August 2018, New Orleans, Louisiana.
- 2018 Ballard, J.P., Driese, S.G., and Horn, S.P. "What Are Siliceous Aggregate Grains and Why Are They Important to the Paleorecords Group?" Joint AMQUA/CANQUA

- [American Quaternary Association/Canadian Quaternary Association] meeting, 7–11 August 2018, Ottawa, Canada.
- 2018 Lafon, C.W., Naito, A., Grissino-Mayer, H.D., Horn, S.P., Waldrop, T. “Fire History and Vegetation Dynamics of the Appalachian Mountains Reconstructed from Proxy Records.” Annual Conference of the Wildlife Society, 7–11 October 2018, Cleveland, Ohio.
- 2018 Horn, S.P., Boehm, M.S., and Underwood, C.A. “Fire History in the Appalachians: Evidence from Soils and Sediments.” Eastern Region Forest Managers Meeting, 10–11 October 2018, Oak Ridge, Tennessee.
- 2018 Horn, S.P., McKay, L.D., Cyr, H.J., Driese, S.G., Perilla-Castillo, P.J., Boehm, M.S., Kerr, M.T., and Tran, L. “A 1000-yr Paleoflood Record from the Tennessee River near Decatur, Tennessee.” Annual meeting of the Geological Society of America, 4–7 November 2018, Indianapolis, Indiana.
- 2018 Perilla-Castillo, P.J., Cyr, H.J., Horn, S.P., McKay, L.D., and Driese, S.G. “Flood History from Paleoflood Deposits in Cut Bank Soil Profiles in Chicamauga Reservoir, Tennessee River, U.S.A.” Annual meeting of the Geological Society of America, 4–7 November 2018, Indianapolis, Indiana.
- 2018 Fritz, B., Tran, L, Horn, S.P., and McKay, L.D. “Identifying Sinkholes with the Potential for the Preservation of Paleoflood Sediments in the Upper Tennessee Basin.” Annual meeting of the Geological Society of America, 4–7 November 2018, Indianapolis, Indiana.
- 2018 Horn, S.P., Boehm, M.S., and Ballard, J.P. “Anderson Pond Revisited: A New Chronology for a Classic Pollen Site in the Southeastern U.S.” Annual meeting of the Southeastern Division of American Association of Geographers, 18–19 November 2018, Johnson City, Tennessee.
- 2018 Kerr, M.T., Horn, S.P., and Lane, C. S. “Sedimentary Nitrogen as a Proxy for Prehistoric Forest Clearance and Site Abandonment in Southern Pacific Costa Rica” Annual meeting of the Southeastern Division of American Association of Geographers, 18–19 November 2018, Johnson City, Tennessee.
- 2018 Cecil, J., Smith, C.E., Boehm, M.S., and Horn, S.P. “A Macroscopic Charcoal and Pollen Record from a Belizean Pine Savanna.” Annual meeting of the Southeastern Division of American Association of Geographers, 18–19 November 2018, Johnson City, Tennessee.
- 2018 Blentlinger, L., Horn, S.P., Kerr, M.T., and Lane, C.S. “Hydrogen Isotope Analysis of N-Alkanes in Sediments of Emerald Pond, Abaco Island, The Bahamas.” Annual meeting of the Southeastern Division of American Association of Geographers, 18–19 November 2018, Johnson City, Tennessee.
- 2019 Horn, S.P., Haberyan, K.A., Boehm, M.S., Kerr, M.T., Wright, W.J., Reed, E.E., Lane, C.S., Arford, M.R, and Graham, J.E. “New Proxy Analyses from Laguna Martinez, Costa Rica.” Annual meeting of the American Association of Geographers, 3–7 April 2019, Washington, D.C.
- 2019 Boehm, M.S., Horn, S.P., Kerr, M.T., Driese, S.D., and Lane, C.S. “Henson Branch Revisited: Holocene Environmental Dynamics in Western Tennessee.” Annual meeting of the American Association of Geographers, 3–7 April 2019, Washington, D.C.

- 2019 Cecil, J., Smith, C., Horn, S.P., Boehm, M.S., and Lane, C.S. "A Multiproxy Record of Paleoenvironmental Change from a Belizean Pine Savanna." Annual meeting of the American Association of Geographers, 3–7 April 2019, Washington, D.C.
- 2019 Fritz, B., Tran, L., Horn, S.P., and McKay, L. "Creating an Enhanced Sinkhole Dataset for the Upper Tennessee River Basin." Annual meeting of the American Association of Geographers, 3–7 April 2019, Washington, D.C.
- 2019 Johanson, E., Kerr, M.T., Horn, S.P., and Blentlinger, L. "A 4,200-year Record of Fire History from the Southern Pacific Costa Rica Lowlands." Annual meeting of the American Association of Geographers, 3–7 April 2019, Washington, D.C.
- 2019 Kerr, M.T., Horn, S.P., Lane, C.S. "A Revised Chronology of Paleohydrology and Vegetation Change at Laguna Bonillita, Costa Rica." Annual meeting of the American Association of Geographers, 3–7 April 2019, Washington, D.C.
- 2019 Lafon, C.W., Naito, A., Horn, S.P., and Waldrop, T. "Changing Fire Regimes and Their Implications for Vegetation Dynamics in the Appalachian Mountains." Annual meeting of the American Association of Geographers, 3–7 April 2019, Washington, D.C.
- 2019 Taylor, Z.P., Lane, C.S., and Horn, S.P. "A Spatially-Explicit Record of Prehistoric Maize Agriculture from Compound-Specific Carbon Isotope Analysis." Annual meeting of the American Association of Geographers, 3–7 April 2019, Washington, D.C.
- 2019 Underwood, C., and Horn, S.P. "The Case for Soil Charcoal in Multi-Proxy Reconstructions of Fire History." Annual meeting of the American Association of Geographers, 3–7 April 2019, Washington, D.C.
- 2019 Wu, J., Porinchu, D., and Horn, S.P. "Late Holocene Hydroclimate Variability: Signature of the Terminal Classic Drought and the Medieval Climate Anomaly in the Northern Tropical Americas." Annual meeting of the American Association of Geographers, 3–7 April 2019, Washington, D.C.
- 2019 Yanuskiewicz, E., Lane, C.S., Johanson, E., Kerr, M.T., Horn, S.P. "Compound-Specific Stable Carbon Isotope Analysis of Vegetation and Land-Use Change at Laguna Los Mangos, Costa Rica." Annual meeting of the American Association of Geographers, 3–7 April 2019, Washington, D.C.
- 2019 Rafie, S.A.A., Hoyt, K.P., Schubert, M.R., Horn, S.P., and Hazen, T.C. "Changes in Microbial Community Structure After Controlled Burn Treatment of Temperate Hardwood and Mixed Forests." Poster. Annual meeting of the American Society for Microbiology, 20–24 June 2019, San Francisco, California.
- 2019 Naito, A.T., Lafon, C.W., Flatley, W.T., Horn, S.P., and Waldrop, T.A. "Synthesizing the History of Fire and Oak Development in the Appalachian Region." Poster. 6<sup>th</sup> Fire in Eastern Oak Forest Conference, 23–25 July 2019, State College, Pennsylvania.
- 2019 Perilla-Castillo, P.J., McKay, L. D., and Horn, S.P. "Geochronology Methods to Date Holocene Sediments for Paleoflood Studies in the Tennessee River, U.S.A. Annual meeting of the Geological Society of America, 22–25 September 2019, Phoenix, Arizona.
- 2019 Horn, S.P., Schultz, B., Blentlinger, L., Hudson, M., Boehm, M.S., Alumbaugh, J., Wright, W., and Burke, K. "Hands-on Study of Soils and Sediments with L&N Stem Academy Students." Poster. Engagement and Outreach Conference: Partnering for Impact, 29 October 2019, The University of Tennessee, Knoxville, Tennessee.
- 2019 Horn, S.P., Boehm, M.S., and Underwood, C.A. "Soil Charcoal Evidence of Long-Term Fire and Forest History from Mesic Forests of Great Smoky Mountains National Park,

- Tennessee, U.S.A.” Annual meeting of the Southeastern Division of the Association of American Geographers, 24–25 November 2019, Wilmington, North Carolina.
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