

# Andrew H. Ivester

University of West Georgia  
Carrollton, Georgia | aivester@westga.edu

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## Education

- Ph.D. Geography, The University of Georgia** Athens, Georgia  
Concentrations: Quaternary Geochronology, Geomorphology, Soils  
Dissertation: Quaternary geology of inland dunes in Georgia, U.S.A.  
Advisor: David S. Leigh
- Visiting Scientist, Dalhousie University** Halifax, NS, Canada  
Department of Earth Sciences  
NSF-supported dissertation research in luminescence geochronology  
Advisor: Dorothy Godfrey-Smith
- M.A. Geography, The University of Georgia** Athens, Georgia  
Thesis: A late Quaternary paleoenvironmental record from sediments at  
White Paintings Rock Shelter, Tsodilo Hills, Botswana  
Advisor: George A. Brook
- B.S. Physics, *cum laude*, Furman University** Greenville, South Carolina  
Research internships: Astronomy (NASA)  
Chemical Physics (Georgia Institute of Technology)  
Astrophysics (Queen's University of Belfast, Northern Ireland)
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## Positions Held

- Instructor, University of West Georgia, Department of Geosciences** 2023-Present
- Adjunct Faculty, University of West Georgia, Department of Geosciences** 2008-2023
- Research Associate, University of Sheffield, Department of Geography** 2019-2021
- Energy Analyst / Business Development, H I Solutions, Inc., Kennesaw, GA** 2007-2019
- External Lecturer, University of Vienna, Vienna, Austria, Institute of  
Geography and Regional Research** 2014
- Associate Professor, University of West Georgia, Department of Geosciences** 2004-2006
- Assistant Professor, University of West Georgia, Department of Geosciences** 1999-2004

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## Publications

- Moore, C.R., LeCompte, M.A., Kennett, J.P., Brooks, M.J., Firestone, R.B., Ivester, A.H., Ferguson, T.A., Lane, C.S., Duernberger, K.A., Feathers, J.K. and Mooney, C.B., 2024. Platinum, shock-fractured quartz, microspherules, and meltglass widely distributed in Eastern USA at the Younger Dryas onset (12.8 ka). *Airbursts and Cratering Impacts*, 2(1), p.20240003.
- Ivester, AH, Rhodes, EJ, Dolan, JF, Van Dissen, RJ Gauriau, J, Little, T, McGill, SF, and PA Tuckett (2022) A method to evaluate the degree of bleaching of IRSL signals in feldspar: The 3ET method. *Quaternary Geochronology* 72, 101346.
- Tsai, C.-H., Abdrakhmatov, K., Mukambayev, A., Elliott, A., Elliott, J., Grutzner, C., Rhodes, E., Ivester, A., Walker, R., & Wilkinson, R. (2022). Probing the upper end of intra-continental earthquake magnitude: a prehistoric example from the Dzhungarian and Lepsy faults of Kazakhstan. *Tectonics*, American Geophysical Union, accepted June 2022.
- Moore, CR, Brooks, MJ, Daniel, IR, Jr., Ivester, AH, Feathers, JK, and TE Barbour (2018) Regional manifestations of Late Quaternary climate change and archaeological site burial potential along the South Atlantic Coastal Plain. In: Goodyear, AC and CR Moore (Eds.), *Early Human Life on the Southeastern Coastal Plain*. University of Florida Press, Gainesville. p. 192-235.
- Lee, S, Hwang, CS, Seong, J, Ivester, AH, Kim, J, and Jung, H (2017) *The National Atlas of Korea for Children*. Korean Ministry of Land, Infrastructure and Transport, National Geographic Information Institute. 108 pages.
- Moore, CR, West, A, LeCompte, MA, Brooks, MJ, Daniel, RA Jr., Goodyear, AC, Ferguson, TA, Ivester, AH, Feathers, JK, Kennett, JP, and KB Tankesley (2017) Widespread platinum anomaly documented at the Younger Dryas onset in North American sedimentary sequences. *Scientific Reports* SREP-16-36598B.
- Robbins, LH, Brook, GA, Murphy, ML, Ivester, AH, Campbell, AC (2016) The Kalahari during Marine Isotope Stages 6-2 (190-12 ka): *Archaeology, Palaeoenvironment and Population Dynamics*. In Jones, S., Stewart, B.A., (Eds.), *Africa from MIS 6-2: Population Dynamics and Palaeoenvironments*. *Vertebrate Paleobiology and Paleoanthropology Series*, Springer, Dordrecht.
- Moore, CR, Brooks MJ, Mallinson, DJ, Parham, PR, Ivester, AH, and JK Feathers (2016) The Quaternary evolution of Herndon Bay, a Carolina Bay on the coastal plain of North Carolina (USA): Implications for paleoclimate and oriented lake genesis. *Southeastern Geology*.
- Dotterweich, M, Ivester, AH, Hanson, PR, Dye, DH, and D Larsen (2015) Natural and human induced prehistoric and historical soil erosion and landscape development in Southwestern Tennessee, USA. *Anthropocene* 8:6-24.
- Rich, FJ, Taylor, BE, Brooks, MJ, Ivester, AH, and CO Clement (2011) Late Pleistocene and Holocene vegetation changes in the sandhills, Fort Jackson, South Carolina. *Southeastern Geology* 48(3):147-163.
- Ivester, AH, Brook, GA, Robbins, LH, Campbell, AC, Murphy, ML, and E Marais (2010) A sedimentary record of environmental change at Tsodilo Hills White Paintings Rock Shelter, Northwest Kalahari Desert, Botswana. Book chapter in *Palaeoecology of Africa: An International Yearbook of Landscape Evolution and Palaeoenvironments, Vol. 30*, African Palaeoenvironments and Geomorphic Landscape Evolution. Runge, Jurgen (editor). 400p.
- Brooks, MJ, Taylor, BE, and AH Ivester (2010) Carolina bays: Time capsules of culture and climate change. *Southeastern Archaeology* 29 (2):146-163.
- Ivester, AH, Poplin, E, Brooks, MJ, and GA Brook (2009) Life on the edge: the formation of Mathis Lake and its human occupation. *South Carolina Antiquities* 41: 1-16.

- Tarlera, S, Jangid, K, Ivester, AH, Whitman, W, and M Williams (2008) Microbial community succession and bacterial diversity in soils during 77,000 years of ecosystem development. ***FEMS Microbial Ecology*** 64: 129-140.
- Ivester, AH and Leigh, DS (2003) Riverine dunes on the coastal plain of Georgia, U.S.A. ***Geomorphology*** 51: 289-311.
- Ivester, AH, Leigh, DS, and DI Godfrey-Smith (2001) Chronology of inland eolian dunes on the Coastal Plain of Georgia, U.S.A. ***Quaternary Research*** 55(3): 293-302.
- Robbins, LH, Murphy, ML, Brook, GA, Ivester, AH, Campbell, AC, Klein, RG, Milo, RG, Stewart, KM, Downey, WS, and NJ Stevens (2000) Archaeology, Palaeoenvironment, and Chronology of the Tsodilo Hills White Paintings Rock Shelter, Northwest Kalahari Desert, Botswana. ***Journal of Archaeological Science*** 27:1085-1113.
- Robbins, LH, Murphy, ML, Stevens, NJ, Brook, GA, Ivester, AH, Haberyan, KA, Klein, RG, Milo, R, Stewart, KM, Matthiesen, DG, and AJ Winkler (1996) Paleoenvironment and archaeology of Drotzky's Cave: Western Kalahari Desert, Botswana. ***Journal of Archaeological Science*** 23:7-22.
- Shaw, JS, Guinan, EF, and AH Ivester (1991) A study of the near-contact binary FO Virginis with the IUE. ***Bulletin of the American Astronomical Society*** 23:1415.

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### Conference Presentations (undergraduate student co-authors underlined)

- Rhodes, E., Dolan, J., Ivester, A., McGill, S., and Van Dissen, R. (2024) Constructional and erosional geomorphic markers used to understand spatio-temporal variations in fault activity, EGU, 2024.
- Gauriau, J., Dolan, J.F., Van Dissen, R.J., Little, T.A., Rhodes, E., and Ivester, A. (2023) Non-characteristic slip behavior on the Kekerengu fault throughout the past four to five earthquakes at Bluff Station, New Zealand, AGU Fall Meeting Abstracts, 257, T31E-0257, 2023.
- Fougere, D.M., Dolan, J.F., Rhodes, E., McGill, S.F., and Ivester, A. (2023) Deciphering non-constant earthquake behavior: Insights from the Garlock fault in Southern California, AGU Fall Meeting Abstracts, 268, T31G-0268, 2023.
- Rhodes, E., Ivester, A., Dolan, J., Gauriau, J., Van Dissen, R., and Little, T. (2022) New luminescence chronological tools for dating and tracing sediment movement, **EGU General Assembly 2022, Vienna, Austria**, 23–27 May 2022, EGU22-12285, <https://doi.org/10.5194/egusphere-egu22-12285>, 2022.
- Fougere, D, Dolan, J, McGill, S, Ivester, AH, and Rhodes, EJ (2022) Refining the record of incremental slip rate and paleo-earthquake ages for the western and central segments of the Garlock fault. **Southern California Earthquake Center Annual Meeting.**
- Tsai, C-H, Grützner, C, Daout, S, Abdrakhmatov, K, Mukambayev, A, Elliott, A, Fitzsimmons, K, Carr, AS, Rhodes, EJ, Ivester, AH, Rood, AH, Rood, DH, Wilkinson, R, Walker, R (2022) Geological and Geodetic Slip Rates of the Dzhungarian Fault, Northern Tien Shan. **11th International INQUA Meeting on Paleoseismology, Active Tectonics and Archeoseismology (PATA)**, 25 – 30 September 2022, France.
- Ivester, AH, Rhodes, EJ, Dolan, JF, Van Dissen, RJ, Gauriau, J, Little, T, McGill, SF and Tuckett, PA (2021) A method to assess the degree of bleaching of IRSL in feldspar: The 3ET method. **American Geophysical Union Fall Meeting**, New Orleans, LA.

- Ivester, AH, Rhodes, EJ, Dolan, JF, Van Dissen, RJ, Gauriau, J, Little, T, McGill, SF (2021) An approach to test for IRSL full bleaching on deposition: The 3ET method. **16<sup>th</sup> International Luminescence and Electron Spin Resonance Dating Conference.**
- Rhodes, EJ, Ivester, AH, Dolan, J, Van Dissen, R, Gauriau, J, Fougere, D, Anthonissen, C, McGill, S, Zinke, R, and T Little (2021) Improving and assessing luminescence chronological approaches for the determination of slip rate and in paleoseismology. **American Geophysical Union Fall Meeting, New Orleans, LA.**
- Anthonissen CJ, Wolfe, FD, Leon, LA, Don, J, Dolan, JF, Shaw, JH, Rittenour TM, Rhodes EJ, Ivester AH (2021) Back-limb and fore-limb folding of the Puente Hills blind-thrust fault with implications for late Pleistocene slip-rate estimates and seismic hazard analysis in the Los Angeles Basin, southern California. Contribution #11515, 2021 **Southern California Earthquake Center Annual Meeting.**
- Rhodes, EJ and Ivester, AH (2020) Improving the robustness of single grain K-feldspar IRSL sediment age estimates from active tectonic contexts. Proceedings of **EGU General Assembly 2020: Sharing Geoscience Online**; c2020. DOI: 10.5194/egusphere-egu2020-19294
- Ivester, AH, Hansen PR, O'Brien ST, Elliott DT, Jennings TA. (2019) Luminescence dating and archaeological site formation processes in the Sand Hills of western Georgia, USA. **UK Luminescence and ESR Dating Meeting, DTU Nutech, Roskilde, Denmark, 26th-28th August.**
- Rhodes, EJ and Ivester, AH (2019) Challenges in dating fluvial sediments using post-IR IRSL at 225°C. **UK Luminescence and ESR Dating Meeting, DTU Nutech, Roskilde, Denmark, 26th-28th August.**
- Rhodes EJ, Ivester, AH, Dolan JF, Van Dissen RJ, Little T. (2019) Novel Approaches to Improve Robustness of K-feldspar IRSL Age Estimates of Sediment from Active Tectonic Contexts. **AGU Fall Meeting, San Francisco, California.** Dec 2019:T41H-0350.
- Ivester, AH, Seong, J, and CS Hwang (2018) Designing an Atlas for Pre-teen Students: The National Atlas of Korea for Children. **International Geographical Union 2018 Regional Conference, Québec City, Québec, Canada.**
- O'Brien, ST, Ivester, AH, Jennings, TA, Elliott, DT, and DC Ashlock (2017) Reconstructing Archaic landscapes in the Sandhills: a geoarchaeological analysis of eolian depositional environments at Fort Benning, Georgia. **Southeastern Section, Geological Society of America Meeting, 2017.**
- Thomas, JB, Ferguson, TA, and Ivester, AH (2017) A comparative study of legacy sediments in the Ferguson Creek Watershed: 1937 to 2016. **Southeastern Section, Geological Society of America Meeting, 2017.**
- Moore, CR, West, A, Lecompte, M, Brooks, MJ, Daniel, IR, Goodyear, AC, Ferguson, TA, Ivester, AH, Feathers, JK, Kennett, J, Tankersley, KB, Adedeji, AV, and T Bunch (2017) Widespread platinum anomaly documented at the Younger Dryas onset in North American sedimentary sequences consistent with Greenland ice core data. **Southeastern Section, Geological Society of America Meeting, 2017.**
- Ivester, AH, and TA Ferguson (2015) Fluvial stratigraphy and sedimentation during the Holocene and late Pleistocene at the Foxwood Farm archaeological site (38PN35) along the Oolenoy River, South Carolina. **Geological Society of America, Annual Meeting, Baltimore, Maryland.**
- Baldwin, H, Ivester, AH, and TA Ferguson (2015) Loss-on-ignition (LOI) in Holocene fluvial sediments: the influence of particle-size variability. *Abstracts with Programs - Geological Society of America, SE Section Meeting.*
- Chowns, TM, Ivester, AH, Kath, RL, Meyer, BK, Thomas, DH, and Hanson, PR (2014) A new hypothesis for the formation of the Georgia Sea Islands through the breaching of the Silver Bluff Barrier and dissection of the ancestral Altamaha-Ogeechee drainage. *Abstracts with Programs - Geological Society of America, SE Section Meeting.*
- Moore, CH, Brooks, MJ, Mallinson, DJ, Parham, PR, Ivester, AH, and Feathers, JK (2014) Rapid scour, sand rim construction, and basin migration of a Carolina Bay in southeastern North Carolina. *Abstracts with Programs - Geological Society of America, SE Section Meeting.*

- Chowns, TM, Ivester, AH, Kath, RL, and Hanson, PR (2012) Radiometric dating supports contention that Blackbeard Island is the tip of St. Catherines spit on the Georgia Coast, USA. **Geological Society of America Abstracts with Programs**, Vol. 44, No. 7, p. 228.
- Dotterweich, M, Ivester, AH, Hanson, PR, Brown, R, and Foster, T (2012) Land use and soil erosion during the period of prehistoric agriculture in southeastern USA. **Geological Society of America Abstracts with Programs**, Vol. 44, No. 7, p. 104.
- Moore, C.H., Brooks, M.J., Ivester, AH, Ferguson, TA, and Feathers, JK (2012) Geoarchaeological investigations of Carolina bay sand rims in the central Savannah River area, South Carolina: Differentiating the undifferentiated. **Geological Society of America Abstracts with Programs**, Vol. 44, No. 7, p. 568.
- Moore, C.H., Brooks, M.J., Ivester, AH, Ferguson, TA, and Feathers, JK (2012) Carolina bay formation and evolution: Kaczorowski was right! **Geological Society of America Abstracts with Programs**, Vol. 44, No. 7, p. 296.
- Smallwood, Shane, Ivester, AH, Moore, CH, Brooks, MJ, Ferguson, TA (2012) Magnetic mineral composition and depositional processes on a Carolina bay sand rim. **Geological Society of America Abstract with Programs**, 44(4): p. 2.
- Moore, C.H., Brooks, MJ, Ivester, AH, and Ferguson, TA (2011) Geoarchaeological investigations of Carolina Bay sand rims in the Central Savannah River Area, South Carolina: Site Formation Processes and Geochronology. **Developing International Geoarchaeology Conference, September 20-24, 2011, Knoxville, TN.**
- Alexander, C, Rink, W, Jackson, CW, Jr., Brook, GA, and Ivester, AH, (2011) Late Holocene geologic development of the Georgia coast. **Abstracts with Programs - Geological Society of America, SE Section Meeting.**
- Robbins, LH, Brook, GA, Murphy, ML, Ivester, AH, and AC Campbell (2010) The Kalahari from stages six to two: archaeology, palaeoenvironments and population dynamics. Africa from stages 6 to 2: Population Dynamics and Palaeoenvironments. 2-4<sup>th</sup> July 2010. **McDonald Institute for Archaeological Research. University of Cambridge.**
- Moore, CH, Brooks, MJ, Ivester, AH, and Ferguson, TA (2010) Geoarchaeological investigations of Carolina bays in South Carolina: Methodological approaches for interpreting site formation processes, archaeostratigraphy, and geochronology. **Abstracts with Programs - Geological Society of America, Northeast-Southeast Joint Section Meeting, Boston, MA.**
- Ivester, AH, Ferguson, TA, and S Butler (2009) Holocene floodplain and terrace formation in Piedmont river valleys of northwestern South Carolina. **Abstracts with Programs - Geological Society of America, 58<sup>th</sup> Annual Meeting, Portland, OR.**
- Ivester, AH, MJ Brooks, and E Poplin (2008) Geomorphological analysis of the Mathis Lake sand rim: Implications for Late Quaternary site formation processes at Carolina bays. **65<sup>th</sup> Southeastern Archaeological Conference, Charlotte, North Carolina.**
- Hyatt, JA, Ivester, AH, and K Bieler (2008) Developing a Sequence-Stratigraphic Model of Human-Induced Canyon Erosion in Southwest Georgia. **Human Impacts on Watershed Processes - Watershed Restoration and Management; 2008 Annual Meeting, Association of American Geographers, Boston, MA.**
- Ivester, AH, Brooks, MJ, and BE Taylor (2007) Sedimentology and ages of Carolina Bay sand rims. **Southeastern Section Meeting-Geological Society of America, Savannah, Georgia.**
- Dunagan, TN and Ivester, AH (2006) Creating a GIS of Carolina bay distribution in southeastern Georgia, USA. **Southeastern Section Meeting, Geological Society of America, 23-24 March 2006, Knoxville, TN.**
- Hyatt, JA, Ivester, AH, Ostrowski, T, and T Chowns (2006) Sedimentary Records of Human-Induced Landscape Change Associated with Massive Soil Erosion in Georgia. **Abstract for the 2006 Annual Meeting, Association of American Geographers, Chicago, Illinois.**

- Ivester, AH, and MA Williams (2006) Holocene remobilization of inland sand dunes in the southeastern U.S. ***Society for American Archaeology 71<sup>st</sup> Annual Meeting, San Juan, Puerto Rico, April 26-30, 2006.***
- Ostrowski, T, Hyatt, JA, Ivester, AH, and T Chowns (2005) Vibracore records of alluvial aggradation following massive human-induced erosion, Providence Canyon, Georgia. Paper 6-22, **Northeastern Section Meeting, Geological Society of America**, March 14-16, 2005.
- Williams, MA, Tarlera, S, Ivester, AH, and B Whitman (2005) Microbial community composition and diversity during 90,000 years of habitat development in soil chronosequences. **NSF Sponsored Workshop "Frontiers in Exploration of the Critical Zone" University of Delaware – Newark, Delaware, October 24-26, 2005**
- Ivester, AH, Godfrey-Smith, DI, Brooks, MJ, and BE Taylor (2004) Chronology of Carolina bay sand rims and inland dunes on the Atlantic Coastal Plain, USA. **Third New World Luminescence Dating Workshop, Halifax, NS, Canada** 4-7 July 2004.
- Alexander, CR, Ivester, AH, Brook, GA, and P Srivastava (2004) Preliminary chronology of the back-barrier islands of the Georgia coast: Implications for saltmarsh formation. **AGU Chapman Conference on Salt Marsh Geomorphology: Physical and Ecological Effects on Landform, Halifax, NS, Canada** 9-13 October 20
- Reed, JI, and AH Ivester (2003) Using RUSLE and GIS to predict erosion rates in the Snake Creek Reservoir watershed. Abstracts with Programs - **Geological Society of America** 35(6):615.
- Ivester, AH, Brooks, MJ, Taylor, BE, and DI Godfrey-Smith (2002) Carolina bays and inland dunes of the southern Atlantic Coastal Plain yield new evidence for regional paleoclimate. *Abstracts with Programs - Geological Society of America* 34(6):273.
- Ivester, AH, Burns, KM, and Jl Reed (2002) Sedimentology of a Carolina Bay sand rim, Big Bay, South Carolina. **Georgia Academy of Sciences, Georgia Journal of Science** 60(1):76.
- Reed, JI, Ivester, AH, and T Benyshek (2002) An alluvial soil chronosequence along Snake Creek in the western piedmont of Georgia USA. *Abstracts with Programs - Geological Society of America* 34(6):275.
- Rodgers, JC III, Ivester, AH, and Durden, SD (2000) A Holocene Pollen Record From a Carolina Bay on the Coastal Plain of Georgia, U.S.A. *Abstracts with Programs - Geological Society of America.*
- Ivester, AH and DI Godfrey-Smith (1999) Optically stimulated luminescence properties of eolian sediments in the Georgia Coastal Plain. **Georgia Academy of Sciences, Georgia Journal of Science** 57(1):56-57.
- Leigh DS and AH Ivester (1999) Dunes at Fort Stewart, southeast Georgia: Geomorphology and Age. **Southeastern Division of the Association of American Geographers.** Abstracts of the Annual Meeting, 1999.
- Leigh, DS and AH Ivester (1998) Geomorphology of source-bordering dunes along the Canoochee River, Fort Stewart, Georgia. *Abstracts with Programs - Geological Society of America* 30(7):123.
- Ivester, AH (1997) Potential buried archaeological material in the riverine eolian dunes of southeast Georgia: soil and geomorphic evidence. *Abstracts with Programs, Geological Society of America, Southeastern Division* 29(3):26.
- Ivester, AH and DS Leigh (1997) Evidence for multiple phases of eolian dune activity along the Canoochee River, Georgia. **Georgia Academy of Sciences, Georgia Journal of Science** 55(1):70.
- Ivester, A.H. (1996) Determination of depositional environments for sand deposits in Georgia using hydraulic equivalence. *Abstracts with Programs - Geological Society of America*, 28(6):306.
- Ivester, AH, and GA Brook (1996) A Quaternary paleoenvironmental record from White Paintings Rock Shelter, Botswana. *Abstracts - Association of American Geographers 92<sup>nd</sup> Annual Meeting: Charlotte, North Carolina.* p. 141.
- Ivester, AH (1994) Paleoenvironments in Botswana: a sediment analysis of White Paintings Rockshelter, Tsodilo Hills. **Georgia Academy of Sciences, Georgia Journal of Science** 52(1):42.

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## Technical Reports and Guidebooks

- Investigation of the Rocky Bottom Piled-Stone Complex (38PN126) Pickens County, South Carolina. Johannes H. N. Loubser, Daniel T. Elliott, Andrew Ivester, Dennis Chastain, and Wes Cooler (2023) LAMAR Institute Publication Series Report Number 233. Submitted to The Naturaland Trust. 137pp.
- Luminescence dating report: Ashepoo River Mammoth Site, Colleton County, South Carolina. Ivester, AH, (2022) Report for South Carolina State Museum, Columbia, South Carolina.
- IRSL sediment dating results from China Lake, Ridgecrest, Kern County, California. Rhodes, EJ and AH Ivester (2020) Report for US Naval Air Weapons Station, China Lake, CA.
- Optically-stimulated Luminescence Dating Results: Good Hope Heavy Maneuver Area, Fort Benning Military Reservation, Georgia. **Ivester, AH** (2017) Appendix 7 in Volume 2, Mitigation of Nine Archaeological Sites in the Good Hope Heavy Maneuver Training Area, Chattahoochee County, Georgia. by D.T. Elliott and D.C. Ashlock, pp. 1-7. Submitted to Environmental Management Division, U.S. Army Garrison Fort Benning, Georgia.
- Geomorphological Investigations: Archaeological sites 38RD841/842/844, Fort Jackson, South Carolina. **Ivester, AH**, Brooks, MJ, Moore, CH (2010) Submitted to the University of South Carolina, South Carolina Institute of Archaeology and Anthropology.
- Leigh, DS, and **AH Ivester** (2009) Late Pleistocene braided rivers and eolian dunes in southeastern Georgia. ***Southeastern Friends of the Pleistocene Conference, Field trip guidebook, December 2009.*** University of Georgia Geomorphology Laboratory Research Report 5. Department of Geography, University of Georgia, Athens, Georgia. 21 pages.
- Geomorphological Investigations on the North Tyger River at S-24, Spartanburg County, South Carolina. In: Butler, S. and M. Reynolds **AH Ivester** (2009) Phase I Cultural Resources Survey S-64 Anderson Mill Road, Bridge over the North Tyger River Improvements Corridor, Spartanburg County, South Carolina. Brockington and Associates, Inc. Atlanta, Charleston, Jacksonville, Savannah.
- Geomorphological Investigations on the North Pacolet River at Earls Ford, Spartanburg County, South Carolina. In: Butler, Scott, **AH Ivester** (2009) Cultural Resources Survey of the S-128 North Pacolet River Bridge Replacement, Spartanburg County, South Carolina. Brockington and Associates, Inc. Atlanta, Charleston, Jacksonville, Savannah.
- Geomorphological investigations at Mathis Lake, South Carolina. In: Weaver, Wendy, **Ivester, AH**, Lineberry, David, and Eric C. Poplin (2008) Archaeological data recovery investigations at 38AK862, Palmetto Parkway Project, Aiken County, South Carolina. Brockington and Associates, Inc. Atlanta, Charleston, Jacksonville, Savannah.
- Benson, RW, Jones, S, and **Ivester, AH** (2007) Phase III Excavations of 9GO231 on Lick and Salacoa Creeks, Gordon County, Georgia. Draft report submitted to the Georgia Department of Transportation by Southeastern Archeological Services, Inc., Athens.
- Ivester, AH** (2006) Carolina bays of the south Atlantic coastal plain as exemplified by Big Pond, Appling County, Georgia: in Chowns, T.M., (*ed.*) Quaternary stratigraphy and depositional environments: Jekyll Island and the Golden Isles Parkway. ***Georgia Geological Society Guidebook*** 26(1).
- Preliminary report on geomorphological investigations in Orange County, New York. **AH Ivester** (2005) Report contributed to Geoarchaeology Research Associates, Riverdale, New York.
- Natural Setting of Site 1EE505 along the Tallapoosa River, Elmore County, Alabama. **AH Ivester** (2003) Report contributed to R. Christopher Goodwin and Associates, Inc., New Orleans.
- Geomorphology of the Snake Creek sites, Carroll County, Georgia. **AH Ivester**, Contribution to Benyshek, T. and Wild, M. (2003) Archaeological data recovery at 9CL269 and 9CL270, H.C. (Hill) Seaton reservoir, Carroll County, Georgia. TRC, Inc. 3772 Pleasantdale Road, Suite 200; Atlanta, GA 30340-4214. Project #29852.
- Phase I cultural resources survey and archeological inventory of the proposed Southern Liquefied Natural Gas (SLNG) Elba Island Expansion Project, Elba Island, Chatham County, Georgia. Krause, K., Coughlin, S., Ventresca, A., George, D., Coyle, K., **Ivester, A.H.**, Labadia, C., Pincoske, J., and W. Athens (2002). R. Christopher Goodwin and Associates, Inc., New Orleans.

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## Grants

- Equipment: NSF MRI: Track 1 Acquisition of Luminescence Reader Equipment for University of West Georgia Luminescence Laboratory **\$185,313. Submitted 2023** as co-PI with Nathan Lawres (UWG). NSF BCS - Major Research Instrumentation.
- Land use and soil erosion during the period of Mississippian agriculture in southeastern USA, Co-investigator with Dotterweich, Markus (Institute of Geography, Johannes-Gutenberg University Mainz, Germany), 2012, **\$30,000.**
- Paleoenvironmental records from depressional wetlands in southern Georgia, UWG Sponsored Operations, 2005-2006, **\$1,520.**
- Analysis of peat core sedimentology and plant macrofossils from Ft. Jackson, South Carolina, UWG Student Research Assistant Program, 2005, **\$1,950.**
- Luminescence dating of alluvial and colluvial deposits at Providence Canyon, Georgia, UWG Faculty Research Grant, 2005-2006, **\$1,500.**
- Microbial Community Composition and Dynamic During Habitat Development at Meso-and Micro-Scales in Soil Chronosequences, National Science Foundation, Microbial Observatories and Microbial Interactions and Processes Program. 2004. Co-PI with Mark Williams, Assistant Research Professor, Department of Crop and Soil Sciences, University of Georgia; David Leigh, Associate Professor of Geography, University of Georgia; Larry West, Professor of Crop and Soil Sciences, University of Georgia; and Kang Xia, Assistant Professor of Soil Organic Chemistry, University of Georgia. \$494,414 (**Not funded**).
- Infusing science-based assessments of watershed health into policy decisions for long-term agricultural sustainability, 2004 Southern Region Sustainable Agriculture Research and Education Grant Preproposal. Co-PI on proposal by G. Richard Larkin, Assistant Professor of Political Science, UWG. \$350,000 (**Not funded**).
- Sedimentology of eolian deposits associated with Carolina Bays, (Renewed) UWG Student Research Assistant Program, 2003, **\$1,800.**
- Sedimentology of eolian deposits associated with Carolina Bays, UWG Student Research Assistant Program, 2002, **\$1,800.**
- Hydraulic equivalence analysis, UWG Student Research Assistant Program, 2001-2002, **\$1,800.**
- Hydraulic equivalence methods for distinguishing depositional environments, UWG Faculty Research Grant, 2001-2002, **\$1,500.**
- Dissemination of Local Weather Data via the Internet, UWG Student Research Assistant Program, 2001-2002, **\$720.**
- Buried soils in Coastal Plain eolian deposits as evidence for Holocene climatic variability, UWG Sponsored Operations, 2001-2002, **\$1,470.**
- Doctoral Research Award, Association of American Geographers, Geomorphology Specialty Group, 1997, **\$400.**
- Inland eolian dunes in Georgia: Age, morphology, and paleoenvironmental implications, National Science Foundation, Doctoral Dissertation Research Grant, 1997-1999, **\$9,750.**

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## **COURSES TAUGHT**

### **University of Sheffield (United Kingdom), Department of Geography**

The Science of Environmental Change (GEO6807)

### **University of Vienna (Austria), Institute of Geography and Regional Research**

Fachexkursion Ausland: Landschaftsentwicklung in den Südstaaten der USA  
(Field Course Abroad: Landscape Development in the Southern States of the USA)

### **Georgia State University, Department of Geosciences**

Introduction to Remote Sensing (GEOL 4530/6530)  
Geomorphology (GEOL 4640)

### **University of West Georgia, Department of Geosciences**

Physical Geography (GEOG 1111)  
Weather and Climate (GEOG 1112)  
Landform Geography (GEOG 1113)  
Physical Geology Laboratory (GEOL 1121L)  
Environmental Science (GEOG 2202)  
Environmental Science Laboratory (GEOG 2202L)  
Meteorology (GEOG 3713)  
Geomorphology (GEOL 4003)  
Energy and Sustainability (GEOG 4082)  
Soil Science (GEOG 4103)  
Intro to GIS (GEOG 2553)  
GIS: Geographic Information Systems (GEOG 4553/5553)  
Global Environmental Change (GEOG 4700)  
Contemporary Applications in GIS (GEOG 4753/6753)  
Senior Seminar (GEOG 4084) *Geoarchaeology*  
Senior Seminar (GEOL 4501) *Quaternary Science*  
Selected Topics in Geology (GEOL 4985) *Soil Laboratory Methods*  
Physical Geography for Teachers (GEOG 7203)  
Independent Study Courses (GEOG 4082 and GEOL 4082) *Climatology, Meteorological Data Analysis, Erosion Modeling and Processes, Alluvial Stratigraphy, Quaternary Research, GIS Applications.*

### **The University of Georgia, Department of Geography**

An Introduction to Landforms (GEOG 1113)  
An Introduction to Landforms Laboratory (GEOG 1113L)  
Environmental Studies Laboratory

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## Student Research Directed

Hayden Anderson	GIS Applications in fluvial geomorphology. Accepted for <b>Southeastern Division American Association of Geographers SEDAAG, Greenville, SC 2024.</b>
Joel Edmondson	Sedimentology of an alluvial terrace of the Little Tallapoosa River, Georgia. <b>Presented at Southeastern Archaeology Conference SEAC, Chattanooga, TN, 2023, and at Georgia Academy of Sciences KSU, 2024.</b>
Helena Baldwin	Organic carbon content and pedology of Holocene alluvial deposits, Saluda River, South Carolina, <b>Presented at Southeastern GSA Meeting, Chattanooga, TN, 2015</b>
Tela Dunagan	GIS analysis of the Salacoa Creek watershed, Georgia
Christopher Mew	Carolina bay sand rim sedimentology, Flamingo Bay, South Carolina, <b>Presented at Southeastern GSA Meeting, Asheville, NC, 2011</b>
Shane Smallwood	
Joshua Harrison	
Michele Rivera	Field survey and mapping of a ~3.5 m-thick peat Little Ocmulgee River, Georgia
Shane Smallwood	
Tela Dunagan	Geospatial analysis of the orientation and size distribution of Carolina Bays, Chatham, Effingham, and Screven Counties, Georgia, <b>Presented at Southeastern GSA Meeting, Knoxville, TN, 2005</b>
Tyler Smith	Using GIS, Lidar imagery, and fluvial stratigraphy to develop a sediment budget
Eric Burger	for a watershed in the Little Tallapoosa River basin, Georgia
Brian Parrish	Paleoenvironmental interpretation of floodplain stratigraphy, Salacoa River, GA
Danielle Purvis	Sedimentology of a Carolina bay shoreline, Mathis Pond, South Carolina
Eric Burger	Glacial stratigraphy in the Poconos Mountains, Marshalls Creek, Pennsylvania
Tara Mostowj	Plant phytolith analysis using a polarizing light microscope
Anita Presnall	Quantification of phytolith abundances in a Holocene peat
Robert Watkins	Sedimentology of fluvial deposits at the Patterson Site (38SP156), SC
Leigh Leckman	Analysis of organic-rich spring-head sediments, Ft. Jackson, SC
Jacqueline Reed	GIS analysis and erosion modeling in the Snake Creek basin, <b>Presented at Geological Society of America Meeting, Seattle, WA, 2003</b>
Jacqueline Reed	A chronosequence of alluvial soils in the Snake Creek valley, Carroll County, Georgia, U.S.A. <b>Presented at Geological Society of America Meeting, Denver, CO, 2002</b>
Joey Davidson	A review of paleoclimate modeling of the Southeastern United States
Anthony Lumpkin	Real-time dissemination of local weather data via Internet
Kimberly Burns	Sedimentology of a Carolina Bay sand rim, Big Bay, South Carolina, <b>Presented at Georgia Academy of Science, Milledgeville, GA, 2001</b>
Jacqueline Reed	
Stacy Durden	A Holocene pollen record from a Carolina Bay on the coastal plain of Georgia, U.S.A., <b>Presented at Geological Society of America Meeting, Reno NV, 2000</b>

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## Graduate Student Advisees

**Klein, Christoph, Diplom Geograph, Johannes Gutenberg Universität Mainz, Germany (2015)** Thesis:

Prehistoric and Historic Land Use and Soil Erosion on the East Gulf Coastal Plain: Russell County, Alabama, USA.

**Chapman, Dawn D, Ph.D., Department of Archaeology, University of York, United Kingdom (2012)**

Dissertation: Between the Bricks: Making mortar visible in the archaeological record of Chatham and Effingham Counties, Georgia from 1830 to 1930.

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## Professional Societies

American Geophysical Union  
American Association of Geographers  
British Society for Geomorphology  
Geological Society of America  
Georgia Academy of Science  
Society for American Archaeology

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## Reviewer for Professional Journals

Geoarchaeology

Geomorphology

Journal of Coastal Research

Journal of Great Lakes Research

Sedimentology

Southeastern Geology

Southeastern Geographer

Quaternary Research

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## Service

- Guest lecturer, UWG Geospatial Workshop for students from Kyung Hee University, Seoul, South Korea. Lead field tours and advised students regarding GIS projects/presentations, 2016-2022
- Organizing committee, Southeastern Friends of the Pleistocene Conference, Spartanburg, SC, February 2017
- Invited lecture, Department of Physics, Astronomy, and Geology, Berry College, Rome, GA, 2016
- Invited lecture, Georgia State University, Atlanta, GA, 2013
- Reviewer for NSF proposals, Directorate for Geosciences, 2006-2011
- Organizing committee, Southeastern Friends of the Pleistocene Conference, Georgia Coastal Plain Field trip, December 2009
- Georgia Geological Society 2006 Annual Fieldtrip Planning Committee. ~200 participants in three-day program on Jekyll Island and the Altamaha River Valley of southern Georgia.
- Search Committee Chair for two faculty positions in Geography program. Successfully hired Temporary Instructor in GIS and Associate Professor in GIS, 2005-2006
- Tenure and Promotion Committee, College of Arts & Sciences. Voted on tenure/promotion decisions for 18 faculty, 2005-2006
- Member of Geography Program Committee for restructuring curriculum and courses for Geography BS degree program, 2005-2006
- Invited lecture, Geosciences Department, Georgia State University: Luminescence dating in geomorphic and paleoenvironmental research: examples from the Atlantic Coastal Plain (2005)

- Session Chair, Third New World Luminescence Dating Workshop, Halifax, NS, Canada July 2004
- Helped train the Science Olympiad Climate Team for National Competition, Booth Middle School, Fayette County, GA, 2003-2006
- Invited lecture, Geology and Geography Department, Georgia Southern University, Statesboro, Georgia: Quaternary research and luminescence dating, 2002
- Participant in Project InSight, Preparing Tomorrow's Teachers to use Technology (PT3) Initiative (U.S. Department of Education), 2000-2002
- Session Chair, Geomorphic and other terrestrial records of Quaternary climate change in the Southeast. 1999 Annual Meeting, Southeastern Section, Geological Society of America, 1999
- Chair, Earth and Atmospheric Sciences Section Georgia Academy of Science. In charge of organizing 1998 section meeting and conference talks in Savannah
- Delegation leader, Youth Science Exchange Program to Australia and New Zealand. Lead 38 high-school seniors on ecology/oceanography-oriented educational trip. Included snorkeling at the Great Barrier Reef, 1994
- Volunteer, Société Internationale de Linguistique, Republic of Togo, West Africa. Computer maintenance and literacy work, 1990

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## Technical Skills

### Field experience:

Survey instruments/Total station  
Soil horizon description to NRCS standards  
Hand auger  
Vibra-corer  
Geoprobe™  
Giddings™ hydraulic probe

Russian style peat corer  
Livingstone corer  
Geophysical survey, including:  
Ground-penetrating radar  
Magnetometry  
Electrical resistivity

### Laboratory experience:

Luminescence dating (OSL/IRSL)  
Soil micromorphology  
X-ray diffractometry (XRD)  
ICP geochemistry  
Sedimentology  
Particle size characterization  
Heavy mineral separation

Magnetic mineral separation  
LECO Organic carbon determination  
Scanning electron microscopy (SEM)  
Energy-dispersive X-ray spectroscopy (EDS)  
Dendrochronology  
Sample prep for palynology  
Phytolith and plant microfossil extraction  
Radiocarbon sample collection and preparation

### Software/Coding:

ArcGIS Pro  
QGIS  
Office Suite  
Illustrator

Jupyter Notebooks  
InDesign  
Python

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## Educational Travel Experience

**Africa:** Botswana, Namibia, South Africa, Togo, Zimbabwe | **Asia:** China, Japan

**Europe:** United Kingdom, Denmark, Ireland, France, Belgium, Germany, Poland, Czechia, Austria

**North America:** Canada (British Columbia, Ontario, Quebec, New Brunswick, Nova Scotia), United States of America (44 states), Mexico, St. Kitts & Nevis, Puerto Rico | **Oceania:** Australia, New Zealand