

Zachary P. Taylor

Department of Environmental Science and Studies
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EDUCATION

Ph.D. Geography, University of Tennessee, Knoxville, May 2011

Dissertation title: *Spatial Variation in Organic Carbon and Stable Isotope Composition of Lake Sediments at Laguna Zoncho, Costa Rica*. (Advisors: S. Horn and D. Finkelstein)

M.S. Geography, University of Tennessee, Knoxville, August 2005

Thesis title: *The Environmental History of Laguna Yaguarú, Eastern Bolivia: Pollen and Stable Carbon Isotope Analysis*. (Advisors: S. Horn and C. Mora)

B.S. *Magna cum Laude*, Environmental Science, University of Denver, March 2003

Minors: Geography and Geology

Honors Thesis title: *Paleoenvironmental History from Grand Mesa, Colorado: A Multiple Proxy Record from Sediment Analysis*. (Advisor: D. Sullivan)

PROFESSIONAL EXPERIENCE

2026–present Professor, Dept. of Environmental Science and Studies, Berry College

2023–present Chair, Dept. of Environmental Science and Studies, Berry College

2020–2026 Associate Professor, Dept. of Environmental Science and Studies, Berry College

2014–2020 Assistant Professor, Environmental Science Program, Berry College

2013–2014 Adjunct Professor, Tokyo International University of America

2011–2014 Visiting Assistant Professor, Dept. of Env. & Earth Sciences, Willamette Univ.

2010–2011 Graduate Teaching Associate, Dept. of Geography, University of Tennessee

2009–2010 Graduate Teaching Assistant, Dept. of Earth & Planetary Sciences, Univ. of Tenn.

2008–2009 NSF Graduate Fellow, GK–12 Earth Project, University of Tennessee

2007–2008 Graduate Teaching Associate, Dept. of Geography, University of Tennessee

2006–2007 NSF Graduate Fellow, GK–12 Earth Project, University of Tennessee

2005 Instructor and Mentor, Math and Science Regional Center, Univ. of Tennessee

2004–2006 Graduate Teaching Assistant, Dept. of Geography, University of Tennessee

2003–2004 Graduate Research Assistant, University of Tennessee

2001–2003 Undergraduate Research Assistant, Dept. of Geography, University of Denver

COURSES TAUGHT

Berry College

- ESS/EVS 104: Introduction to Environmental Science
- ESS/EVS 220: Geographic Information Systems
- ESS/EVS 405: Environmental Science Capstone
- ESS/EVS 310: Biogeography
- ESS/EVS 312: Global Change in the Anthropocene
- ESS 290: Prescribed Fire Certification
- EVS 480: Weather and Climate
- BCC 100: Berry Campus Connection (First Year Seminar)

Tokyo International University of America

- AMSTU 321: Sustainability in the US and Asia

Willamette University

- ENVR 105: Introduction to Environmental Science
- EARTH 112: Physical Geography
- EARTH 361: Quaternary Paleoenvironments
- ENVR 333: Global Climate Change
- EARTH 333: Geographic Information Systems
- ENVR 495/496: Environmental Science Senior Thesis

University of Tennessee

- GEOG 131: Introduction to Physical Geography I
- GEOG 132: Introduction to Physical Geography II

TEACHING RECOGNITION

2009	Citation for Outstanding Professional Promise, University of Tennessee
2008	Robert G. Long Outstanding Graduate Student Award, Department of Geography, University of Tennessee
2008	Outstanding Teaching Associate, Department of Geography, University of Tennessee
2006	Outstanding Teaching Assistant, Department of Geography, University of Tennessee

RESEARCH INTERESTS

- Quaternary climate change
- Multiple-proxy paleoenvironmental reconstruction
- Stable isotope ratio geochemistry
- Biogeography
- Human-environment interactions
- Conservation biology

PUBLICATIONS

- Z.P. Taylor.** 2025. “A game-based simulation to illustrate the challenges of societal response to climate change.” *The Geography Teacher* 22 (4): 201–204.
- Z.P. Taylor** and Taylor, R.C.. 2025. “A low-cost gravity-style corer capable of multiple sediment recovery drives.” *Journal of Paleolimnology* 73: 445–450.
- Z.P. Taylor**, C.N. Anderson*, C.S. Lane, G.X. Pleasant*, E. Yanuskiewicz. 2025. “A 7500-year record of fire and precipitation dynamics from Clear Pond, South Carolina, USA.” *Journal of Quaternary Science* 40 (5): 764–777.
- Owen, M.G.* and **Taylor, Z.P.** 2023. “Patterns of Disjunction in Western Hemisphere Birds, Amphibians, Crocodilians, and Mammals.” *Physical Geography* 44 (6): 782–797.
- Thomas, B.A.*, Saylor, R.K., **Taylor, Z.P.**, and Rhodes, D.V.L. 2023. “Evaluating Trends in Strangles’ Outbreaks Using Climatological Weather Data in the United States from 2018–2022”. *Pathogens* 12 (9): 1106.
- Mowry, C.B., Lee, A., **Taylor, Z.P.**, Hamid, N., Heneghen, M., Russell*, J., Whitney, S.*, and Wilson, L.A. 2021. “Using community science data to investigate urban coyotes (*Canis latrans*) in Atlanta, Georgia, USA”. *Human Dimensions of Wildlife* 26: 163–178.
- Taylor, Z.P.**, Lane, C.S., Horn, S.P. 2020. “A 3,600-year record of drought in Southern Pacific Costa Rica.” *Quaternary Research* 98: 36–48.
- Carleton, R.E., Graham, J.H., Lee, A., **Taylor, Z.P.**, Carleton, J.F. 2019. “Reproductive success of Easter Bluebirds (*Sialia sialis*) varies with timing and severity of drought.” *PLoS One*: 14(8):e0214266.
- Taylor, Z.P.** 2017. “Identifying and quantifying range disjunctions at multiple taxonomic levels in western hemisphere mammals.” *The Professional Geographer* 69: 472–485.
- Taylor, Z.P.** and Bennett, D.E. 2016. “Ecosystem Services Valuation as an Opportunity for Inquiry Learning.” *Journal of Geoscience Education* 64: 175–182.
- Lane, C.S., Horn, S.P., **Taylor, Z.P.**, Kerr, M.T. 2016. “Rapid Response of Terrestrially-Derived n-Alkane $\delta^{13}\text{C}$ Values in Lacustrine Sediments to Prehistoric Land Clearance and Agriculture.” *Quaternary Science Reviews* 145: 238–242.
- Taylor, Z.P.**, Horn, S.P., Finkelstein, D.B. 2015. “Assessing geochemical and isotopic intra-basin spatial variability in a small neotropical lake.” *Journal of Paleolimnology* 54: 395–411.
- Taylor, Z.P.**, Horn, S.P., Finkelstein, D.B. 2013. “Late-Holocene droughts as controls on prehistoric agriculture in southern Central America.” *Quaternary Science Reviews* 73: 196–200.
- Taylor, Z.P.**, Horn, S.P., Finkelstein, D.B. 2013. “Evaluating the use of maize pollen concentrations in lake sediments as indicators of prehistoric agriculture.” *The Holocene* 23: 76–82.

- M.J. Power, Mayle, F.E., Bartlein, P.J., Marlon, J.R., Anderson, R.S., Behling, H., Brown, K.J., Carcaillet, C., Colombaroli, D., Gavin, D.G., Hallett, D.J., Horn, S.P., Kennedy, L.M., Lane C.S., Long, C., Moreno, P.I., Paitre, C., Robinson, G., **Taylor, Z.P.**, Walsh, M. 2012. “Climatic control of the biomass-burning decline in the Americas after AD 1500.” *The Holocene* 23: 3–13.
- Taylor, Z.P.**, Horn, S.P., Mora, C.I., Orvis, K.H., Cooper, L.C. 2010. “A multiproxy palaeoecological record of late-Holocene forest expansion in lowland Bolivia.” *Palaeogeography, Palaeoecology, Palaeoclimatology* 293: 98–107.
- Taylor, Z.P.**, Finkelstein, D.B., Horn S.P. 2010. “Evaluating isotopic and geochemical spatial variability in lake sediments.” (abstract). *Geochimica et Cosmochimica Acta* 74 (12, Supplement 1): A1032.
- Lane, C.S., Horn, S.P., **Taylor, Z.P.**, Mora, C.I. 2009. “Assessing the scale of prehistoric human impact in the neotropics using stable carbon isotope analyses of lake sediments: A test case from Costa Rica.” *Latin American Antiquity* 20 (1): 120–133.

*denotes undergraduate author

OTHER PUBLICATIONS

- Taylor, Z.P.** and Dexter, C.A. 2021. “The Importance of Listening to Student Learning.” *Faculty Focus*. <https://www.facultyfocus.com/articles/online-education/online-course-delivery-and-instruction/the-importance-of-listening-to-student-learning/>

PROFESSIONAL ACTIVITIES

Grantsmanship

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| 2026–2028 | PI, Infrastructure Capacity for Biological Research from the National Science Foundation, “Strategic Planning for a Biological Research Field Station at Berry College,” \$113,984 |
| 2022–2024 | Co-PI, Robert Noyce Teacher Scholarship Grant from the National Science Foundation, “Preparing STEM Teachers for Urban and Rural School Districts in Northwest Georgia,” \$712,665 |
| 2023 | Berry College Faculty Development Grant: “Drought Reconstruction in the Headwaters of the Colorado River,” \$2,992.47 |
| 2021 | Laura Maddox Smith Summer Research Institute for the Environmental Sciences Grant Program (Berry College): “Project 1: Assessing Carbon Sequestration in Berry’s Forests; Project 2: Reconstructing Fire and Climate Dynamics in Southwestern Colorado,” \$6,000 |
| 2019 | Berry College School of Mathematical and Natural Science Development of Undergraduate Research Grant (with C. Mowry and N. Hamid). “Using Public Sighting Information to Investigate Coyote Use of Urban Habitats,” \$1,000 |
| 2018 | Research support from the Canaan Valley National Wildlife Refuge, WV, \$400 |
| 2018 | Research support from Friends of the Canaan Valley NWR, \$1,200 |
| 2018 | Berry College Summer Research Stipend, \$5,000 |

- 2017 Berry College Faculty Development Grant: “A Holocene Record of Environmental Change from Mirror Lake, Colorado,” \$2,424
- 2017 Laura Maddox Smith Summer Research Institute for the Environmental Sciences Grant Program (Berry College): “Reconstructing environmental change using peatlands in West Virginia and Colorado,” \$6,000
- 2017 Community Engagement Course Development Grant, Berry College, \$1,000
- 2009 Yates Dissertation Fellowship, University of Tennessee, \$15,000
- 2008 National Science Foundation, Doctoral Dissertation Research Improvement Grant (Geography and Regional Science Program): “Interpreting Prehistoric Agriculture from Isotope and Pollen Indicators in Neotropical Lake Sediments: Do Multiple Cores Enhance Spatial Resolution?,” \$11,388
- 2008 Geological Society of America, Dissertation Grant Program: “Assessing Spatial Variation in Organic Carbon and Stable Isotopic Composition of Lake Sediments,” \$2,130
- 2003 Thesis Support Grant, Honors Program, University of Denver, \$200
- 2002 W.M. Keck Summer Research Fellowship, University of Denver, \$3,000
- 2001 W.M. Keck Summer Research Fellowship, University of Denver, \$3,000
- 2001 Partners in Scholarship Grant, University of Denver: “Prehistoric Fire History of Grand Mesa, Colorado” (with K. Schlachter and D. Sullivan), \$2,000

Professional Development

- 2024 Basic Wildland Fire Fighter Training (S130, S190, L130), Tall Timbers Research Station
- 2022 Project Kaleidoscope (PKAL) STEM Leadership Institute, American Association of Colleges and Universities
- 2020 Teaching & Learning in the Diverse Classroom Certificate, CornellX Course
- 2017 Academic Community Engagement Workshop, Berry College
- 2012 Technology Enhanced Learning Workshop, Willamette University
- 2010 Summer Grant Writing Institute, Office of Research, University of Tennessee
- 2006 Stable Isotope Ecology Course, SIRFER Lab, University of Utah

Professional Affiliations

- Association of American Geographers
 - Paleoenvironmental Change Specialty Group
 - Biogeography Specialty Group
- Geological Society of America
- American Geophysical Union
- National Association of Geoscience Teachers

PRESENTATIONS AT PROFESSIONAL MEETINGS

- Mowry, C.B., Ernst, A.R., **Taylor, Z.P.**, and Wilson, L.A. 2025. "Social variables and patterns of biodiversity in Atlanta, Georgia." International Urban Wildlife Conference, Atlanta, Georgia.
- Taylor, Z.P.** and Owen, M.G.* 2023. "Quantifying disjunction across multiple taxa in the Western Hemisphere." Poster. Annual meeting of the American Association of Geographers, Denver, Colorado.
- Crain, J.A., Horn, S.P., **Z.P Taylor**, and M.T. Kerr. 2022. "Classifying Microscopic Charcoal Morphology to Improve Understanding of Fire History in Sediment Records from Neotropical Lakes." Annual meeting of the American Association of Geographers.
- Taylor, Z. P.**, Yanuskiewicz, E., Anderson, C.N.*, and Lane, C.S. 2021. "A 7,500-year record of environmental change from Clear Pond, South Carolina." Poster. Annual meeting of the American Association of Geographers.
- Taylor, Z. P.**, Yanuskiewicz, E., Anderson, C.N.*, and Lane, C.S. 2020. "7,000 years of environmental change at Clear Pond, South Carolina." Poster to be presented at the annual meeting of the American Association of Geographers, Denver, Colorado. Conference cancelled due to COVID-19.
- Taylor, Z.P.** 2019. "The potential for environmental reconstruction in the Coosa Basin." Upper Coosa Conservation Summit, Kennesaw, Georgia.
- Taylor, Z.P.**, Lane, C.S., and Horn, S.P. 2019. "A spatially-explicit record of prehistoric maize agriculture from compound specific isotope analysis." Poster. Annual meeting of the American Association of Geographers, Washington, D.C.
- Crain, J.A.* and **Taylor, Z.P.** 2019. "Prehistoric fire dynamics in the sagebrush habitat of the endangered Gunnison Sage Grouse." Poster. Annual meeting of the American Association of Geographers, Washington, D.C.
- Albritton, M.J.*, **Z.P. Taylor**, and Schaney, M. 2019. "A 20,000-year record of effective moisture and fire from Canaan Valley, West Virginia." Poster. Annual meeting of the American Association of Geographers, Washington, D.C.
- Gaskin, M.G.* and **Taylor, Z.P.** 2019. "Using GIS to enhance sustainable coffee farming at Life Monteverde, Costa Rica." Poster. Annual meeting of the American Association of Geographers, Washington, D.C.
- Taylor, Z.P.** 2018. "A 12,000-year record of environmental change from Mirror Lake, Colorado." Annual meeting of the American Association of Geographers, New Orleans, Louisiana.
- Crain, J.A.* and **Taylor, Z.P.** 2018. "A paleoenvironmental perspective on fire dynamics in the habitat of the endangered Gunnison Sage Grouse." Poster. Annual meeting of the American Association of Geographers, New Orleans, Louisiana.
- Albritton, M.J.*, **Z.P. Taylor**, and Schaney, M. 2018. "An 18,000 year record of environmental change from Canaan Valley, West Virginia." Poster. Annual meeting of the American Association of Geographers, New Orleans, Louisiana.

- Anderson, C.N.*, **Taylor, Z.P.**, and Lane, C.S. 2018. "A high-resolution fire history from Clear Pond, South Carolina." Poster. Annual meeting of the American Association of Geographers, New Orleans, Louisiana.
- Taylor, Z.P.**, Lane, C.S., and Horn, S.P. "Hydrogen isotope evidence of climatic control on prehistoric agricultural activities in southern Costa Rica." 2017. Annual meeting of the American Association of Geographers, Boston, Massachusetts.
- Albritton, M.J.* and **Taylor, Z.P.** "A 7,000 year record of fire dynamics from Meridian Lake, Colorado." 2017. Poster. Annual meeting of the American Association of Geographers, Boston, Massachusetts.
- Anderson, C.N.*, **Taylor, Z.P.**, and Lane, C.S. "Holocene vegetation and fire history from Clear Pond, South Carolina." 2017. Poster. Annual meeting of the American Association of Geographers, Boston, Massachusetts.
- Riley, K.R.*, Allen, R.C.*, and **Taylor, Z.P.** "Late-Holocene paleofire records from three lakes in western Colorado." 2017. Poster. Annual meeting of the American Association of Geographers, Boston, Massachusetts.
- Horn, S.P., Johnson, E.N., Sánchez, M.P., **Taylor, Z.P.**, and Kerr, M.T. "Stable Carbon Isotope Ratios in Costa Rican Lake Sediments as a Proxy for Forest Clearance and Crop Cultivation." 2017. XI Congreso Centroamericano de Antropología, San José, Costa Rica.
- Horn, S.P., Maureen 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." 2016. Annual meeting of the American Association of Geographers, San Francisco, California.
- Taylor, Z.P.** "Balancing teaching and research at a liberal arts college." 2015. Annual meeting of the Geological Society of America, Baltimore, Maryland.
- Taylor, Z.P.**, Laird, T*, and Walsh, M. 2015. "Pre-settlement fire and vegetation history from Clear Lake, Oregon." Poster. Annual meeting of the Association of American Geographers, Chicago, Illinois.
- Hash, M.*, **Taylor, Z.P.**, Laudon, K., and Lindh, B. 2013. "Trapping and collaring of the gray wolf (*Canis lupis*) in NW Montana: An analysis of trends to improve efficiency." Poster. Annual meeting of The Oregon Academy of Science, Salem, Oregon.
- Laird, T.*, **Taylor, Z.P.**, and Walsh, M. 2013. "A pre-colonial record of fire and vegetation history in the mid-Willamette Valley from Clear Lake, Oregon." Poster. Annual meeting of The Oregon Academy of Science, Salem, Oregon.
- Horn, S.P., Burgess, J.N., and **Taylor, Z.P.** 2012. "Within-basin variation in modern pollen assemblages in two neotropical lakes." Annual meeting of the AASP – The Palynological Society, Lexington, Kentucky.
- Horn, S.P., **Taylor, Z.P.**, Sánchez Pereira, M., Cozadd, D., Anchukaitis, K.J., and Orvis, K.H. 2011. "Chiriquí Period Agriculture and Agricultural Decline at Laguna Vueltas, Costa Rica." Developing International Geoarchaeology Conference, Knoxville, Tennessee.

- Taylor, Z.P.**, Horn, S.P., and Finkelstein, D.B. 2011. "Assessing the Impacts of Late-Holocene Droughts on Prehistoric Agriculture in Southwestern Costa Rica." Annual meeting of the Association of American Geographers, Seattle, Washington.
- Horn, S.P., Valente, M.J., Underwood, C.A., and **Taylor, Z.P.** 2010. "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, Denver, Colorado.
- Horn, S.P., Valente, M.J., 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 Paleoecological Research: Examples and Suggestions from the University of Tennessee GK–12 Earth Project". Poster. Annual meeting of Ecological Society of America, Pittsburg, Pennsylvania.
- Taylor, Z.P.**, Finkelstein, D.B., and Horn, S.P. 2010. "Evaluating isotopic and geochemical spatial variability in lake sediments." Annual Goldschmidt Conference, Knoxville, Tennessee.
- Taylor, Z.P.**, Horn, S.P., and Finkelstein, D.B. 2010. "A spatially-explicit, multiple-proxy reconstruction of maize agriculture from Laguna Zoncho, Costa Rica." Annual meeting of the Association of American Geographers, Washington, D.C.
- Taylor, Z.P.**, Finkelstein, D.B., and Horn, S.P. 2009. "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, San Francisco, California.
- Taylor, Z.P.**, Horn, S.P., Mora, C.I., Orvis, K.H., and Cooper, L.W. 2009. "Paleoecological evidence of late-Holocene forest expansion in central South America." Annual meeting of the Southeast Division of the Association of American Geographers, Knoxville, Tennessee.
- Horn, S.P., Valente, M.J., **Taylor, Z.P.**, Caffrey, M.A., Underwood, C.A., Lane, C.S., and Lewis, D.B. 2009. "Educational Outreach on Pollen and Other Proxy Indicators in Sediment Records of Environmental Change." Annual meeting of AASP – The Palynological Society, Johnson City, Tennessee.
- Taylor, Z.P.**, Horn, S.P., and Finkelstein, D.B. 2009. "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, Las Vegas, Nevada.
- Valente, M.J., **Taylor, Z.P.**, Lewis, D.B., and Horn, S.P. 2009. "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, Las Vegas, Nevada.
- Valente, M.J., Horn S.P., Nájera A., Lane C.S., and **Taylor Z.P.** 2009. "Paleoecology of an endemism hotspot: evidence from poza and marsh sediments of Cuatrociéngas, Mexico." Poster. Biannual meeting International Biogeography Society meeting in Merida, Mexico.

- Taylor, Z.P.** 2008. "Spatial Analysis of Mammal Disjunctions in the Western Hemisphere." Annual meeting of the Association of American Geographers, Boston, Massachusetts.
- Lane, C.S., Horn, S.P., **Taylor, Z.P.**, Mora, C.I., and Orvis, K.H. 2008. "The Importance of Prehistoric Maize Cultivation in the Interior of Hispaniola." Annual meeting of the Association of American Geographers, Boston, Massachusetts.
- Horn, S.P., Lane, C.S., Mora, C.I., Orvis, K.H., and **Taylor, Z.P.** 2007. "Paleoecological Reconstruction of Early Agriculture and Landscape Change in Costa Rica and the Dominican Republic: Approaches to Improve Spatial Resolution." Annual meeting of the Society for American Archaeology, Austin, Texas.
- Taylor, Z.P.**, Lane, C.S., Horn, S.P., Mora, C.I., and Finkelstein, D.B. 2007. "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, San Francisco, California.
- Lane, C. S., **Taylor, Z.P.**, Mora, C.I., Horn, S.P., and Orvis, K.H. 2006. "The Impact of Prehistoric Maize Agriculture on Lacustrine Sedimentary Isotopic Archives of Vegetation Change." Poster. Annual meeting of the Southeastern Division of the Geological Society of America, Knoxville, Tennessee.
- Taylor, Z.P.**, Horn, S.P., and Mora, C.I. 2006. "Intra-Basin Variation of Stable Carbon Isotope Values." Annual meeting of the Association of American Geographers, Chicago, Illinois.
- Taylor, Z.P.**, Horn, S.P., Mora, C.I., Orvis, K.H., and Cooper, L.W. 2005. "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, Denver, Colorado.
- Taylor, Z.P.**, Horn S.P., Mora, C.I., Cozadd, D., Orvis, K.H., Sanchez, M., and Anchukaitis, K. 2004. "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, Denver, Colorado.
- Lane, C.S., **Taylor, Z.P.**, Mora, C.I., and Horn, S.P. 2004. "Reassessment of Prehistoric Impacts on Laguna Bonillita Using Stable Carbon Isotopes." Annual meeting of the Association of American Geographers, Philadelphia, Pennsylvania.
- Sullivan, D.G., **Taylor, Z.P.**, and Williams, T.J. 2004. "Evidence of Changes in Effective Moisture During the Holocene from Peat Humification Analysis." Annual meeting of the Association of American Geographers, Philadelphia, Pennsylvania.
- Taylor, Z.P.**, Schlachter, K.J., Behrent, M., and Sullivan D.G. 2003. "A Quaternary Environmental History of Grand Mesa, Colorado, from Sediment Analysis." Poster. Annual meeting of the Association of American Geographers, New Orleans, Louisiana.

* denotes undergraduate author

OTHER PRESENTATIONS

- 2021 “Climate Change” Presentation to residents of The Spires Retirement Center, Rome, Georgia.
- 2020 “Understanding the past, present, and future of Earth’s climate.” Presentation to Rome, Georgia Rotary Club.
- 2018 “Climate Change and the Collapse of Past Civilizations.” Science pub presentation sponsored by the Berry College Society of Physics Students, Rome, Georgia.
- 2017 “Climate Change and Prehistoric Agricultural Decline in Costa Rica.” Department of History and Geography Seminar. Missouri Western State University, Saint Joseph, Missouri.
- 2015 “Balancing Teaching and Research at a Liberal Arts College.” Department of Geography Seminar, University of Tennessee, Knoxville, Tennessee.

UNDERGRADUATE RESEARCH ADVISING

Honors Theses Advising

- Swann, S.G. “Public Art for Pollinator Education in Rome, GA.” 2024 (Primary thesis advisor)
- Titley, G.E. “An Assessment of Carbon Sequestration by Forests on Berry College’s Campus.” 2021 (Primary thesis advisor)
- Crain, J.A. “Prehistoric Fire Dynamics in the Sagebrush Habitat of the Gunnison Sage Grouse.” 2019. (Primary thesis advisor)
- Albritton, M.J. “A 20,000-year record of effective moisture and fire from Canaan Valley, West Virginia.” 2019. (Primary thesis advisor)
- Moss, J.P. “Survey of rare plants within a calcareous flatwoods community and analysis of plant-environmental relationships.” 2019. (Thesis committee member)

Student Grants

- 2024 Swann, Sophia Swan. Richards Undergraduate Research Grant, \$435.75.
- 2023 Hardesty, Mary Lara. McCoy Scholars Grant, \$1,000.
- 2022 Head, Tess. Richards Scholar Grant, \$1,000.
- 2021 Furukawa, Kana. Richards Scholar Grant, \$1,000.
- 2019 Baker, Elena. Synovus Scholarship, \$2,000.
- 2019 Harris, Alexandria. Richards Scholar Grant, \$1,000.
- 2019 Gaskin, Mary Grace. Student Research Development Fund, \$500.
- 2018 Crain, Jared. Student Research Development Fund, \$500.
- 2018 Albritton, Meghan. Student Research Development Fund, \$500.
- 2017 Crain, Jared. Student Research Development Fund, \$500.

- 2017 Crain, Jared. Richards Undergraduate Research Support Grant, \$1,347.
- 2016 Riley, Karli. Student Research Development Fund, \$500.
- 2016 Allen, Rhett. Student Research Development Fund, \$500.
- 2016 Anderson, Chelsea. Student Research Development Fund, \$500.
- 2016 Albritton, Meghan. Synovus Scholarship, \$2,000.
- 2015 Anderson, Chelsea. Richards Undergraduate Research Support Grant, \$1,161.

Student Research Presentations

- Patterson, M.V. "Using GIS to Assess Gaps between Race and Recreation." 2026. Presented at the Berry College Symposium on Student Scholarship.
- Woodard, E.H, Hovers, H.M, Patterson, M.V. "Preventing Bird-Window Collisions at the Rome-Floyd E.C.O. Center." 2026. Presented at the Berry College Symposium on Student Scholarship.
- Hardesty, M.L. and Woodard, E.H. "A 7,000-year record of fire dynamics from Meridian Lake, Colorado." 2025. Presented at the Berry College Symposium on Student Scholarship.
- Bratcher, H.S. "Assessing *Taxodium distichum*'s Impact on *Quercus* in Calcareous Flatwoods." 2025. Presented at the Berry College Symposium on Student Scholarship.
- Bell, H.L. "Reconstructing Environmental History from a Western Colorado Wetland." 2024. Presented at the Berry College Symposium on Student Scholarship.
- Hardesty, M.L. Palaeoclimatological Records as Indicators of Anthropocentric Change in Heart Lake, NY. 2024. Presented at the Berry College Symposium on Student Scholarship.
- Swann, S.G. Public Art for Pollinator Education in Rome, GA. 2024. Presented at the Berry College Symposium on Student Scholarship.
- Furukawa, K.S.M. "Holocene-era Fire History from Nicholson Lake, Colorado." 2023. Presented at the Berry College Symposium on Student Scholarship.
- Titley, G.E. "An Assessment of Carbon Sequestration by Forests on Berry College's Campus." 2022.
- Baker, E.A. "Fire Dynamics in Western Colorado Using Charcoal Analysis." 2021. Poster presented at the Berry College Symposium on Student Scholarship.
- Harris, A.L. "Coring Drummond Swamp to understand the strange distribution of *Alnus maritima*." 2021. Poster presented at the Berry College Symposium on Student Scholarship.
- Lanyon, K.L. and Kessler, T.J. "Environmental Education Materials for the Coosa River Basin." 2019. Upper Coosa Conservation Summit, Kennesaw, Georgia.
- Crain, J.A. "Prehistoric fire dynamics in the sagebrush habitat of the endangered Gunnison Sage Grouse." 2019. Poster presented at the Berry College Symposium on Student Scholarship.

- Albritton, M.J. “A 20,000-year record of effective moisture and fire from Canaan Valley, West Virginia.” 2019. Poster presented at the Berry College Symposium on Student Scholarship.
- Gaskin, M.G. “Using GIS to enhance sustainable coffee farming at Life Monteverde, Costa Rica.” 2019. Poster presented at the Berry College Symposium on Student Scholarship.
- Russell, J. and Whitney, S. 2019. “Using public sighting data to investigate coyote use of urban habitats.” (Co-advised with C. Mowry and N. Hamid). Poster presented at the Berry College Symposium on Student Scholarship.
- Fowler, A. 2018. “GIS Mapping of Tick Species and Associated Pathogens on Berry College Campus.” (Co-advised with D. Rhodes) Poster presented at the Berry College Symposium on Student Scholarship.
- Albritton, M.J. 2017. “A 7,000-year record of fire dynamics from Meridian Lake, Colorado.” Poster presented at the Berry College Symposium on Student Scholarship.
- Anderson, C.N. 2017. “Holocene vegetation and fire history from Clear Pond, South Carolina.” Poster presented at the Berry College Symposium on Student Scholarship.
- Riley, K.R., and Allen, R.C. 2017. “Late-Holocene paleofire records from three lakes in western Colorado.” Poster presented at the Berry College Symposium on Student Scholarship.
- Anderson, C.N. 2016. “Fire Dynamics and Climate in Clear Pond, South Carolina.” Poster presented at the Berry College Symposium on Student Scholarship.
- Marchese, L. 2016. “Identifying and Quantifying Range Disjunctions at Multiple Taxonomic Levels of Mammals in the Western Hemisphere.” Poster presented at the Berry College Symposium on Student Scholarship.
- Riley, K.R. and Allen, R.C. 2016. “Reconstruction of Fire Behavior through Macroscopic Charcoal Analysis and Sediment Geochemistry”. Poster presented at the Berry College Symposium on Student Scholarship.
- Selby, H. 2015. “A GIS Analysis of the Effects of Parks in Rome, Georgia, on Surrounding Home Values.” Poster presented at the Berry College Symposium on Student Scholarship.

SERVICE

Discipline

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| 2026 | Manuscript Reviewer, <i>The Geography Teacher</i> |
| 2024 | Manuscript Reviewer, <i>Physical Geography</i> . |
| 2024 | Manuscript Reviewer, <i>Vegetation History and Archaeobotany</i> . |
| 2017–2023 | Director, Paleoenvironmental Change Specialty Group of the American Association of Geographers. |
| 2022 | Manuscript Reviewer, <i>Organic Geochemistry</i> . |
| 2022 | Proposal Reviewer, National Science Foundation. |
| 2018 | Manuscript Reviewer, <i>Natural Science Education</i> . |

- 2018 Manuscript Reviewer, *Journal of Quaternary Science*.
- 2017–2019 Judge, Graduate Student Presentation Competition, Paleoenvironmental Change Specialty Group of the American Association of Geographers.
- 2017 Manuscript Reviewer, *Palaeogeography*, *Palaeoclimatology*, *Palaeoecology*.
- 2016 Participant, Continental Scientific Drilling Science Planning Workshop, Arlington, Virginia.
- 2013 Manuscript Reviewer, *The Holocene*.
- 2013 Proposal Reviewer, Natural Environment Research Council.
- 2012 Proposal Reviewer, National Geographic Society.
- 2012 Proposal Reviewer, Association of American Geographers Biogeography Specialty Group, Student Research Grant Competition.
- 2009 Panel Organizer (with T. Porter), “How to Perform Interdisciplinary Paleoenvironmental Research?” at the annual meeting of the Association of American Geographers.
- 2008–2010 Graduate Student Representative, Paleoenvironmental Change Specialty Group, Association of American Geographers.

College

- 2025–present Chair, Faculty Development Committee
- 2025 Promotion and Tenure Committee representative on the Working Group to Recommend Promotion Procedures for Clinical Faculty, Professors of Practice, and Lecturers
- 2024–present Member, College Promotion and Tenure Committee
- 2023–present Berry STEM*Teach* Environmental Science and Studies Department Liaison
- 2017–present Member, Academic Community Engagement Faculty Advisory Committee
- 2020–2023 Member, School of Mathematical and Natural Science Promotion and Tenure Committee
- 2018–2023 Chair, School of Mathematical and Natural Science Research Committee
- 2021–2022 Chair, Faculty Assembly ad hoc Committee on Faculty Compensation
- 2020–2021 Secretary, Faculty Assembly
- 2019–2021 Member, Council for Student Scholarship
- 2019–2021 Member, Information Technology Committee
- 2018–2020 Member, Academic Council
- 2017–2018 Member, Enrollment Management Committee
- 2016–2018 Member, School of Mathematical and Natural Science Research Committee
- 2016–2018 Member, Endowed Speaker Committee
- 2015–2017 Member, Center for Teaching Excellence Committee

- 2014–2017 Member, Environmental Science Committee
- 2013 Organizer, Environmental and Earth Sciences Research Symposia Series. (Willamette University).

OUTREACH ACTIVITIES

- 2025 Dynamic Earth Test Writer, Northwest Georgia Science Olympiad.
- 2024 Panelist, Bonner Series Panel: “Urban Environmentalism,” Berry College.
- 2022 Panelist, Kappa Delta Pi Honor Society Panel: “STEM Careers for Everyone,” Berry College.
- 2021 Panelist, Bonner Series Panel: “Plastic Recycling,” Berry College.
- 2021 Panelist, S.A.V.E.’s Climate Change Discussion. Berry College.
- 2020 Education Partner of the Year, Coosa River Basin Initiative.
- 2015–2019 Served as a judge at the Area Independent Science Fair held at the Berry Elementary School.
- 2019 Instructor, Rome Federated Garden Clubs Environmental School. Taught classes on resource use, air quality, water resources, and sustainability.
- 2016 Panelist, Bonner Series Panel: “Trash Talk,” Berry College.
- 2014 Led a field trip to the Marshall Forest Reserve for middle school students from the Rome Montessori School.
- 2008–2009, NSF Graduate Fellow, GK–12 Earth Project, University of Tennessee
- 2006–2007 Developed and conducted labs and other activities to improve earth science education at rural, economically disadvantaged middle schools, and involved a schoolteacher in field and laboratory research to improve his understanding of science.