

L Jesse Rouse, PhD, GISP, RPA

Department of Anthropology and Geography
Coastal Carolina University
Conway, SC

lrouse@coastal.edu

Degrees

New Media Literacies and Global Perspectives Certificate

- Appalachian State University; Boone, NC 2022

Doctor of Philosophy in Geography

- West Virginia University; Morgantown, WV 2018
- Dissertation: *Phenomenology and Geographic Information Science: experiencing landscape through geospatial technologies.*
- Advisor: Dr. Trevor Harris

Master of Arts in Geography

- West Virginia University; Morgantown, WV 2000
- Thesis: *Data Points or Cultural Entities?: a GIS-based archaeological predictive model in a post-positivist framework.*
- Advisor: Dr. Trevor Harris

Bachelor of Science in Anthropology

- Appalachian State University; Boone, NC 1996
- Focus - Archaeology of shell-bearing sites
- Advisor: Dr. Cheryl Claassen

Certifications

GIS Professional

- GIS Certificate Institute Recertified through 2025

Registered Professional Archaeology

- Register of Professional Archaeologists

sUAS Remote Pilot Certification

- Federal Aviation Authority Certified through 2024

Certificate in Online Teaching Excellence

- UNCP Office of Online Learning

Awards

AAG Media Achievement Award

- Awarded to VerySpatial, LLC 2022

Trevor and Sylvia Harris GIScience Scholarship

- Department of Geology and Geography, WVU, Morgantown, WV 2010

Special Achievement in GIS

- Esri, Inc., Redlands, CA 2007
- Awarded to VerySpatial, LLC for New Media efforts related to current Geography trends and geospatial technologies.

Research Interests

Geographic Information Science

- Spatial information is integral to capturing data about our world. GIScience is the window into how best to capture, explore, and represent this data and, in turn, our world.

Cultural Landscapes

- Cultural landscape research is a contextual discipline, analyzing and interpreting features that exist in space and at multiple scales. GIS offers a framework to capture and explore aspects of culture within landscape.

Visualization technologies and perception

- Traditional cartographic and 3D environments provide an experience of space to users. Questions remain surrounding how our perception influences these technologies, and how we perceive constructed environments.

Geography Education

- Online courses and unstructured educational materials are creating new ways to present education materials to students and the public through more approachable methods.

Projects Funded

Robeson County Groundwater Monitoring Project

- *Awarded by Robeson County* 2022-2024
- Advisory board member

Robeson County Groundwater Monitoring Project

- *Awarded by Robeson County* 2020-2022
- Co-Principal Investigator

Faculty Research Grant

- *Awarded by UNC Pembroke* 2019
- *Virtual Shikoku Henro Michi: the visual and spatial structure of a Buddhist Pilgrimage Route in Japan*

Duke Energy sub-grant

- *Awarded by UNC Pembroke* 2016
- Co-Principal Investigator – “Bringing spatial literacy to the K-12 classroom”

North Carolina Space Grant

- *Informal Education and Public Outreach Grant* 2010
- Principal Investigator - “Putting the Digital Earth to Work: Introducing Potential Science and Social Studies Users to Earth Observation Sensors and their Data”.

West Virginia SBIR Training Grant

- *Awarded by the West Virginia Small Business Development Council* 2008
- Funding to complete ArcGIS I and ArcGIS II training courses and be certified as an ESRI Trainer.

IGC Travel Grant

- *Awarded by the Association of American Geographers* 2004
- To present at the 2004 meeting of the International Geographic Union conference in Glasgow, Scotland.

West Virginia SBIR Phase 0

- *Awarded by the West Virginia Small Business Development Council* 2003
- “Park Education Enhancement and Management Tool” submitted in conjunction with Greenlight Research, LLC.

Academic Positions

Assistant Professor of Geography

- *Coastal Carolina University; Conway, SC* 2022-present
- Department of Geology and Geography.
(see *Courses Taught* below for class details)

Assistant Professor of Geography

- *University of North Carolina at Pembroke; Pembroke, NC* 2019-2022
- Department of Geology and Geography.

Instructor

- *University of North Carolina at Pembroke; Pembroke, NC* 2009-2019
- Department of Geology and Geography.

Technology Support/Graduate Teaching Assistant

- *West Virginia University; Morgantown, WV* 2007-2009
- Support System Administrator in the Department of Geology and Geography and developing department website.

Geospatial Technology Coordinator

- *West Virginia University; Morgantown, WV* 2004-2006
- Oversight of GIScience research projects in the National Geospatial Development Center, Trevor Harris, PI.

Instructor/Graduate Teaching Assistant

- *West Virginia University; Morgantown, WV* 2003-2007
- Taught fully several undergraduate and graduate courses for the Department of Geology and Geography.

Instructor

- *Fairmont State College; Fairmont, WV* 2001
- Taught Principles of Geography.

Courses Taught

Digital Earth

- *Coastal Carolina University*
- An introductory course that will provide students with an overview of existing and emerging geospatial technologies and their increasing role in shaping our daily lives and the ways in which we interact with the environment and with each other. Taught 2022.

Geospatial Intelligence

- *Coastal Carolina University*
- This course provides students with an introduction to existing and emerging geospatial technologies and their application across a wide range of disciplines dealing with intelligence, security, and decision making. Taught 2022.

Introduction to Geographic Information Science

- *Coastal Carolina University, UNC Pembroke, and West Virginia University*
- Fundamental principles of geographic information systems (GIS) and spatial data handling in a computer environment; sources, analysis, and display of geographical information for planning and decision making. Taught 2011, 2013, 2015, 2017, 2019, 2021, & 2022.

Remote Sensing

- *UNC Pembroke*
- Remote sensing of Earth's surface. Image interpretation, practical applications in Earth Science, and use of remotely sensed data in Geographic Information Systems. Taught 2014, 2016, 2018, & 2020.

Geospatial Technologies Certificate Capstone

- *UNC Pembroke and West Virginia University*
- Practical demonstration of knowledge through the development and completion of a real world project using appropriate geospatial data and technologies. Taught 2017-2022.

World Regional Geography

- *UNC Pembroke and West Virginia University*
- Comparison and relationships of world regions. Geographical perspectives of global problems. Developing regions contrasted with modernized regions and the consequences of their interactions. Taught 2007-2022. **Online sections taught.**

Cultural Geography

- *UNC Pembroke*
- Geographical variations and evolution resulting from interaction between cultural and physical processes. Taught 2016-2022.

Principles of Geography

- *UNC Pembroke and Fairmont State College*
- An introduction to the physical and cultural elements of geography with a study of major geographical regions of the world. Taught 2001, 2009, 2010, 2013, & 2021.

Land Use Planning

- *UNC Pembroke*
- Study of the diverse factors affecting human use of the physical environment. The roles of topography, soils, groundwater, wastewater, streamflow, wetlands, and landscape ecology in environmental land use planning will be considered in detail. Taught 2013, 2015, 2016, 2018, 2019, & 2021.

Geography of Africa

- *UNC Pembroke*
- Examines the historical geography, cultures, economy, and physical environments of the African continent. Taught 2013, 2014, 2018, & 2020. **Online sections taught.**

Geography of American Indians

- *UNC Pembroke*
- Historical and cultural geography of American Indians from the time of European contact. Focus on population dynamics, settlement patterns, land use, and physical resources. Taught 2012, 2014, 2017, & 2020. **Online section taught.**

Introduction to sUAS and Drones

- *UNC Pembroke*
- The growth of the use of sUAS and drones in a variety of industries is changing the hiring landscape. This course focuses on certification and some examples of the hands-on use of these devices. Taught 2019 & 2020.

Geography of Asia

- *UNC Pembroke*
- Geographical analysis of cultures and environments of South Asia, East Asia, and Southeast Asia. Examination of demographic, political, and economic processes that shape regional development. Taught 2017 & 2019.

World Prehistory

- *UNC Pembroke*
- The course examines the development of culture across space and through time with a focus on the emergence of cultural hearths in each global region. Taught 2016 & 2018.

Ground Penetrating Radar

- *UNC Pembroke*
- Subsurface remote sensing using ground penetrating radar (GPR). Taught 2017. **Hybrid course.**

Location Intelligence

- *UNC Pembroke*
- Location Intelligence looks at the intersection of business, geography, and geospatial technologies to support decision making. **Taught online** 2016.

Introduction to Cartography

- *UNC Pembroke*
- Concepts and skills of map use and interpretation. Cartographic techniques and conventions for production of thematic maps. Taught 2012-2015.

Urban Geography

- *UNC Pembroke*
- A review of urban growth and patterns considered through culture, population, and planning. Included field trips to regional, county, or city planning offices. Taught 2015.

Visualizing Data & Information

- *UNC Pembroke*
- Visualization allows for a unique perspective that can immerse the observer in data. The information that can be gleaned through visualizing can be far deeper than considering the data alone. Taught 2018.

Independent Study/Special topics

- *UNC Pembroke*
- A variety of topics specific to student interest in Geography including areas of Spatial Epidemiology, Geography of Sexuality, 3D representation, spatial analysis, and others. 2012-2014, 2016, & 2018-2020.

Internship Coordinator

- *UNC Pembroke*
- Providing students with real world experience in applied Geography contexts. 2012-2015

Geovisualization and the CAVE

- *West Virginia University*
- Co-Lecturer with Susan Bergeron and Dr. Trevor Harris, Discussion of visualizing geographic information using computer technologies including immersive environments. Taught 2008. **Graduate course.**

GIS Applications

- *West Virginia University*
- Operational and management issues in planning management analysis, locational decision making, and design and implementation of GIS. Lab project emphasizes student's specialization. Taught 2007

Advanced GIS

- *West Virginia University*
- Class on the functional strengths and weaknesses of GIS. Related geographical information, science technologies, GPS, remote sensing, multimedia, spatial statistics, and expert systems. Multi-dimensionality (4-D GIS), temporality, social implications of GIS. Taught 2006. **Graduate course.**

Exploratory Spatial Data Analysis

- *West Virginia University*
- Class on the principles, algorithms, and applications of Exploratory Spatial Data Analysis (EDA) and Scientific Visualization for undertaking geographical inquiry. Taught 2006. **Graduate course.**

Publications

- **Rouse, L. J.** and N. Fields, 2019. "Photographic and modeled experience of a museum exhibit: Capturing and sharing." *Proceedings of 2018 Digital Heritage Conference*.
- **Rouse, L. J.**, 2017. "From the Surface Down." *South Carolina Archaeology Month 2017: Archaeology in State Parks*
- Bergeron, S. J. and **L. J. Rouse**, 2013. "Telling the Story of Places: Experiential Learning through the Design and Development of Immersive Virtual Landscapes." *Polymath: An Interdisciplinary Arts and Sciences Journal*. 3(3).
- Harris, T. M., S. J. Bergeron, and **L. J. Rouse**, 2011. "Humanities GIS: adding spatial storytelling and immersive visualization into the humanities." *Geohumanities: Art, History, Text at the Edge of Place*. Edited by Dear, M., J. Ketchum, S. Luria, and D. Richardson, Routledge.
- Harris, T. M., S. J. Bergeron, and **L. J. Rouse**, 2010. "The Geospatial Semantic Web, Pareto GIS, and the Humanities." *Spatial Humanities*. Edited by Bodenhamer, D. J., T. M. Harris, and J. Corrigan, Indiana University Press.
- Harris, T. M., **L. J. Rouse**, and S. J. Bergeron, 2010. "[The Geospatial Web and local geographical education](#)." *International Research in Geographical and Environmental Education*. 19(1), pp 63-66.
- **Rouse, L. J.**, 2009. "Scapes: Inserting Culture in Prehistoric Landscapes." *Proceedings of the Esri International User Conference*.
- Bergeron, S. J., H. F. LaFone, and **L. J. Rouse**, 2008. "Rewind 2008: LBS Coming of Age." *Geospatial Today*, December.
- **Rouse, L. J.**, S. J. Bergeron, and T. M. Harris, 2007. "Participating in the Geospatial Web - Collaborative mapping, social networks, and participatory GIS." *The Geospatial Web*, Edited by Scharl, A. and K. Tochtermann. Springer.
- Bergeron, S. J., **L. J. Rouse**, and H. F. LaFone. 2006. "Unfiltered: New Media in GIS and geospatial technologies." *ArcUser Magazine*, Summer.
- **Rouse, L. J.** and S. J. Bergeron, 2006. "Podcasting: new digital media for the geospatial masses." *Geo:Connexion International*, December.
- Harris, T. M., R. Alagan, and **L. J. Rouse**, 2002. "Geo-visualization approaches to PGIS decision-making in Environmental Impact Assessment." *Proceedings of the First Annual Public Participation Conference*, Rutgers University, pp180-183.
- **Rouse, L. J.** and T. M. Harris, 2002. "A cultural landscape approach to archaeological predictive modeling." *Proceedings of the 10th biannual conference on Appalachian Geography and Geography Education*.

Oral Presentations

- **Rouse, L. J.**, 2022. “Perinatal Health: Mapping a decade of public health data to support a community intervention program.” Paper presented at the annual meeting of the Applied Geography Conference (virtual).
- **Rouse, L. J.**, 2022. “Between practice, process, and representation: Landscape archaeology and Cultural Geography approaches toward the ‘middle ground’.” Paper presented at the annual meeting of the American Association of Geographers, New York.
- **Rouse, L. J.**, 2022. “Here and there: reflection of self and other.” Paper presented at the annual meeting of the ASIANetwork, Geneva, NY.
- Maharjan, M., D. Nelson, and **L. J. Rouse**. (2022) “Influence of Big Storms on the Black Creek Aquifer, Robeson County”. Paper presented at the WRII Conference, Raleigh, NC.
- **Rouse, L. J.**, 2021. “[Experience and the *henro michi*: seeing the representation of sacred space.](#)” Paper presented at the annual meeting of the ASIANetwork, Columbus (virtual).
- **Rouse, L. J.**, 2021. “[The permeable nature of perception: moving between the sacred and secular along the *henro michi*.](#)” Paper presented at the annual meeting of the American Association of Geographers, Seattle (virtual).
- **Rouse, L. J.**, 2021. “[Mapping groundwater levels: data, analysis, and representation](#)” Paper presented at the bi-annual meeting of the North Carolina GIS Conference, Raleigh (virtual).
- **Rouse, L. J.**, 2021. “Data driven perspectives on cultural movement: the sacred and the secular of the spaces between the 88 temples of Shikoku” Paper presented at the Beyond Japanese Studies Symposium, Armidale, NSW, Australia (virtual)
- **Rouse, L. J.**, and M. Maharjan, 2020. “Well, that’s water: Interactive visualization of groundwater data.” Paper presented at the annual meeting of the Applied Geography Conference (virtual).
- **Rouse, L. J.**, 2020. “[おへんろ道 \[*ohenro michi*\]: Visual and experiential consideration of a Buddhist landscape.](#)” Paper presented at the annual meeting of the DH2020, Ottawa (virtual).
- **Rouse, L. J.**, 2019. “Pop Culture as Material Culture: the rise of the box/block/crate.” Paper presented at the annual meeting of the PCAS/ACAS, Wilmington.
- **Rouse, L. J.**, 2019. “An Experience of Digital Landscape: Iconography, Interaction, and Immersion” Paper presented at the inaugural meeting of the Association for Computers and the Humanities, Pittsburgh.
- **Rouse, L. J.**, 2019. “[Digital geographies: the expanding role of technologies in Geography](#)” Paper presented at the bi-annual meeting of the North Carolina GIS Conference, Winston-Salem.
- **Rouse, L. J.**, 2018. “Whose world is it anyway?: Perspective and Perception in virtual and augmented landscapes” Paper presented at the annual meeting of the American Association of Geographers, New Orleans.
- **Rouse, L. J.**, 2018. “Ready Mapper One” Lightning talk presented at the annual Research and Creativity Showcase at UNC Pembroke.
- **Rouse, L. J.**, 2017. “The evolving role of photogrammetry” Paper presented at the annual meeting of the NC ArcUser Group, Wilmington.
- **Rouse, L. J.**, 2017. “Blessed plains and protective forests: The role of place as character in Mercedes Lackey’s Valdemar series” Paper presented at the annual meeting of the American Association of Geographers, Boston.
- **Rouse, L. J.** and S. J. Bergeron, 2017. “[Virtual Representation and Geospatial Technologies: 30 years of virtual landscapes](#)” Paper presented at the Biannual Meeting of North Carolina GIS Conference, Raleigh.
- **Rouse, L. J.**, 2016. “From the surface down: spatial perspectives and technologies that support cultural heritage understanding and interpretation” Paper presented at the annual meeting of the American Association of Geographers, San Francisco.
- **Rouse, L. J.**, 2016. “How big is an archaeological landscape? A question across the ages.” Paper presented at the South Carolina State Parks Archaeology Conference, Charleston, SC.
- **Rouse, L. J.**, 2016. “Cultural landscapes as context: A sample of projects” Paper presented at the Digital Innovation and Scholarship in the Social Sciences and Humanities Symposium, Greenville, NC.
- **Rouse, L. J.**, 2015. “Shell-bearing Cultural Landscapes of the Southeastern US” Paper presented at the annual Southeast Indian Studies Conference, Pembroke.

- **Rouse, L. J.**, 2014. "Experience and representation: Landscape as cultural tapestry and container" Paper presented at the Annual Meeting of the Popular Culture Association/American Culture Association Conference, Chicago.
- **Rouse, L. J.** and S. J. Bergeron, 2013. "Maps, 3D Worlds, and Infographics: Geovisualization and scientific knowledge presentation." Paper presented at the Annual Meeting of the North Carolina Academy of Science, Pembroke.
- **Rouse, L. J.**, 2013. "Getting in Deep: Building multidimensional representations of geospatial information." Paper presented at the Biannual Meeting of North Carolina GIS Conference, Raleigh.
- **Rouse, L. J.**, 2011. "Putting Digital Earth to Work: Earth Observation Sensors and their Data." Paper presented at the Annual ESRI Education User Conference, San Diego.
- **Rouse, L. J.**, 2011. "Reaching out to highlight Geography: taking advantage of New Media and webmapping technologies to broaden geographic awareness." Paper presented at the Annual Meeting of the Association of American Geographer, Seattle.
- **Rouse, L. J.**, 2011. "From AmericaView to NCView: Earth observation and you." Paper presented at the NCGIS Academic Assembly, Raleigh.
- **Rouse, L. J.**, 2010. "Principia Geographica - or how I found data and what I did to it when I found it." Lightning talk presented at the Annual ESRI Education User Conference, San Diego.
- **Rouse, L. J.**, 2009. "Scapes: Inserting culture in prehistoric landscapes." Paper presented at the Annual ESRI International User Conference, San Diego.
- **Rouse, L. J.** and S. J. Bergeron, 2009. "The development and use of virtual worlds in the classroom." Paper presented at the Annual ESRI Education User Conference, San Diego.
- **Rouse, L. J.** and S. J. Bergeron, 2009. "Building and Experiencing Virtual Worlds." Paper presented at the Annual Meeting of the Association of American Geographer, Las Vegas.
- Harris, T. M., **L. J. Rouse**, and S. J. Bergeron, 2008. "Immersive and experiential GIS and the Humanities." Paper presented at the Historical GIS 2008 conference, Essex.
- **Rouse, L. J.**, 2008. "The role of New Media in informal Geography education: Getting the word out from classroom to outreach." Paper presented at the Association of American Geographer, Boston.
- **Rouse, L. J.**, S. J. Bergeron, and T. M. Harris, 2004. "Principles and applications of Lidar and laser scanning technologies in archaeology" Paper presented at the annual meeting of the Society for American Archaeology, Montreal.
- Harris, T. M. and **L. J. Rouse**, 2004. "GIS and Society perspectives on GIScience in archaeology" Paper presented at the annual meeting of Society for American Archaeology, Montreal.
- **Rouse, L. J.**, S. J. Bergeron, and T. M. Harris, 2004. "Immersive and Experiential: Integrating GIS and VR for Landscape Research" Paper presented at the annual meeting of the American Association of Geographers, Philadelphia.
- **Rouse, L. J.**, T. M. Harris, and S. J. Bergeron, 2004. "What is old is new again: the use of geospatial technologies for prehistoric landscapes reconstruction" Paper presented at the 2004 International Geographical Congress, Glasgow.
- **Rouse, L. J.**, 2004 "You had to be there: Landscape archaeology using GIS and VR" Paper presented at the GIS in the Appalachians conference, Morgantown.
- **Rouse, L. J.** and S. J. Bergeron, 2004. "Visual Consideration of the cultural landscape of the New River Gorge National River" Paper presented at the Biennial Conference on the Appalachian, Harpers Ferry.
- **Rouse, L. J.**, 2003. "A conceptual framework for considering submerged cultural landscapes." Paper presented at the annual meeting of Society for American Archaeology, Milwaukee.
- Harris, T. M., **L. J. Rouse**, and V. Baker, 2003. "Enhancing GIS and LIDAR data through Virtual Reality". Paper presented at the annual meeting of the American Association of Geographers, New Orleans.
- **Rouse, L. J.**, S. J. Bergeron, and T. M. Harris, 2002. "The immersive geography of archaeology". Paper presented at the annual meeting of the American Association of Geographers, Los Angeles.
- Alagan, R., S. Keleagetse, **L. J. Rouse**, and T. M. Harris, 2001. "Integrating GIS and Environmental Impact Assessment for spatial decision making." Paper presented at the annual meeting of the American Association of Geographers, New York.

- Bergeron, S. J., C. Connolly, A. Dawson, B. Horter, and **L. J. Rouse**, 2001. "The Archaeology of Northern West Virginia: a reevaluation of the regional prehistoric cultural sequence." Paper presented at the annual meeting of Society for American Archaeology, New Orleans.
- Bergeron, S. J, T. M. Harris, and **L. J. Rouse**, 2001. "Developing a contextual GIS for prehistoric cultural landscape analysis: the Marietta Mounds Internet GIS." Paper presented at the International Geographical Congress, Glasgow.
- Harris, T. M. and **L. J. Rouse**, 2001. "Developing the Electronic Cultural Atlas Initiative for West Virginia" Paper presented at the annual meeting of the American Association of Geographers, New York.
- Harris, T. M. and **L. J. Rouse**, 2001. "Virtual World, Virtual Reality and Landscape Archaeology" Paper presented at the annual meeting of Society for American Archaeology, New Orleans.
- **Rouse, L. J.**, 2000. "Reconstructing an archaeological landscape using virtual reality and geographic information systems" Guest Lecturer for the Northern Panhandle chapter of the West Virginia Archaeological Society.
- Harris, T. M., B. Turley, and **L. J. Rouse**, 2000. "Developing the Electronic Cultural Atlas Initiative for West Virginia" paper presented, London.
- Harris, T. M., B. Turley, and **L. J. Rouse**, 2000. "Integrating the humanities and geospatial science: exploring cultural resources and sacred space through Internet GIS" paper presented, Berkeley.
- Harris, T. M., J. Sewash, and **L. J. Rouse**, 2000. "Integrating Immersive Visualization and Geographic Information Systems for Archaeological Analysis". Paper presented at the annual meeting of Society for American Archaeology, Philadelphia.
- Gozdzik, G., T. M. Harris, S. J. Bergeron, and **L. J. Rouse**, 1999. "The integration of socio-cultural factors and environmental variables in predictive modeling?: a critiques of an existing GIS based predictive model" Paper presented at the annual meeting of Society for American Archaeology, Chicago.
- **Rouse, L. J.**, 1999. "Paradigm and Discourse: A look at the structure of knowledge in the social sciences" paper presented at the Biennial Conference on the Appalachian.
- Gozdzik, G., T. M. Harris, S. J. Bergeron, and **L. J. Rouse**, 1998. "A Predictive Model Integrating GIS and Archaeology in Southern West Virginia" Paper presented at the Society for American Archaeology, Seattle.
- **Rouse, L. J.**, 1997. "Mollusks in the Work Place: Locating Activity Areas Using Fragmentation" paper presented at the annual meeting of the Mid-Atlantic Archaeology Conference, Ocean City.

Poster Presentations

- Maharjan, M., **L. J. Rouse**, and D. Nelson. "Hurricane-induced water level changes in the Black Creek Aquifer, Robeson County". Poster presented at the Southeast GSA Conference, Cincinnati, OH.
- **Rouse, L. J.** and Amanda Gallavan, 2019. "The changing garden: using UAV data to analyze a growing season." Poster presented at the Meeting of the Applied Geography Conference, Charlotte, NC.
- **Rouse, L. J.**, 2018. "Visual Worldbuilding and Geography: A look at spatial concepts using virtual landscapes." Poster presented at the Meeting of the North Carolina Geographical Society, Durham, NC.
- **Rouse, L. J.** and N. Fields, 2018. "Photographic and modeled experience of a museum exhibit: Capturing and sharing." Poster presented at the Digital Heritage 2018 Conference, San Francisco, CA.
- **Rouse, L. J.**, 2017. "Mapping personal impacts of Matthew: geospatial technologies in the geography classroom." Poster presented at the Meeting of the North Carolina Geographical Society, Winston-Salem, NC.
- **Rouse, L. J.** and Y. Jiang, 2016. "Close-Range Photogrammetry: comparing two use cases for cultural landscapes" Poster presented at the annual meeting of the Southeastern Division of the AAG, Columbia.
- **Rouse, L. J.**, 2015. "Impact of Shell-bearing sites on global prehistoric cultural landscapes." Poster presented at the Annual Meeting of the Association of American Geographers, Chicago, IL.
- **Rouse, L. J.**, 2015. "From the surface down: looking for landscape change at Hampton Plantation." Poster presented at the Annual South Carolina State Parks Archaeology Conference, Charleston, SC.
- Duncan, J. and **L. J. Rouse**, 2014. "Forest Impact and Ecology Alteration in Southeastern North Carolina." Poster presented at the Annual Pembroke Undergraduate Research Council Symposium, Pembroke, NC.
- **Rouse, L. J.**, 2013. "Voyage to Greenland: presenting a spatial narrative through a story map" Poster presented at the ESRI International User Conference, San Diego.

- **Rouse, L. J.**, 2013. “Campus Map of UNC Pembroke” Poster presented at the ESRI International User Conference, San Diego.
- **Rouse, L. J.**, 2012. “Mapping as a tool in a community-based project to reduce youth violence and crime in rural North Carolina.” Poster presented at the Annual Meeting of the Association of American Geographers, New York.
- **Rouse, L. J.**, 2010. “It’s OK to play with your data: Exploring local data to find new questions” Poster presented at the Annual Meeting of the Association of American Geographers, Washington, DC.
- Bergeron, S. J. and **L. J. Rouse**, 2008. “Engaging the Virtual Landscape: serious gaming environments as tools in historical landscape reconstruction and interpretation” Poster presented at the Digital Humanities and Computer Science Colloquium, Chicago.
- Bergeron, S., **L. J. Rouse**, and T. M. Harris, 2008. “Geovisualization and immersive environments in Historical Geography and Landscape Analysis” Poster presented at the ESRI International User Conference, San Diego.
- **Rouse, L. J.**, 2008. “Finding meaning in cultural landscapes through viewshed analyses” Poster presented at the Annual Meeting of the Southeastern Division of the AAG, Greensboro.
- Bergeron, S., **L. J. Rouse**, and T. M. Harris, 2007. “The Next Best Thing to Being There? GIS, Geovisualization and virtual reconstructions in historical geography and landscape analysis.” Poster presented at the Annual Social Science History Association Meeting, Chicago.
- Bergeron, S., **L. J. Rouse**, and T. M. Harris, 2007. “Geovisualization and immersive environments in Historical Geography and Landscape Analysis” Poster presented at the WVU Presidential Inauguration, Morgantown.
- Bergeron, S., A. Dawson, and **L. J. Rouse**, 2005. “Mapping the Historic Resources of the New River Gorge National River”. Poster presented at the Research Horizons Workshops, WVU, Morgantown.
- **Rouse, L. J.** and S. J. Bergeron, 2005. “Podcasting and Blogging: digital media for the masses.” Poster presented at the Research Horizons Workshop, WVU, Morgantown.
- **Rouse, L. J.**, 2005. “Back in the saddle again: A consideration of differing models of landform data generation” Poster presented at the Annual Meeting of the American Association of Geographers, Denver.
- Bergeron, S., **L. J. Rouse**, and T. M. Harris, 2004. “Internet-based GIS as a tool in prehistorical cultural landscape analysis” Poster presented at the annual meeting of the American Association of Geographers, Philadelphia.
- Bergeron, S., S. Harris, T. M. Harris, and **L. J. Rouse**, 2003. “Community identity and historical persistency: the development of South Park, Morgantown, West Virginia.” Poster presented at the annual meeting of the American Association of Geographers, New Orleans.
- Bergeron, S., T. M. Harris, **L. J. Rouse**, and A. Dawson, 2002. “The Wharf District, Morgantown, WV: Boom, Bust, and Gentrification”. Poster presented at the annual meeting of the American Association of Geographers, Los Angeles.
- **Rouse, L. J.** and T. M. Harris, 2001. “Data Points or Cultural Entities: incorporating Cultural data in GIS-based archaeological research” Poster presented at the annual meeting of the Society for American Archaeology, New Orleans.
- Harris, T. M., B. Turley, and **L. J. Rouse**, 2000. “Developing the Electronic Cultural Atlas Initiative for West Virginia” Poster presented at the Horizons of Research Workshop, Morgantown.
- **Rouse, L. J.**, 1998. “Mollusks in the Work Place: Shell Fragmentation as an Analytical Tool” Poster presented at the annual meeting of the Society for American Archaeology, Seattle.

Organized Sessions

- 2018 “Space, Interaction, and Immersion: Expanding representations of geographic information” Session organized for the Annual Meeting of the Association of American Geographers, New Orleans.
- 2017 “Geography and fiction” Session organized for the Annual Meeting of the Association of American Geographers, Boston.
- 2011 “Geography and geospatial technologies outreach.” Session organized for the Annual Meeting of the Association of American Geographers, Seattle.
- 2010 “Digital Media and Learning in Geography.” Session organized for the Annual Meeting of the Association of American Geographers, Washington, DC.
- 2008 “New Media, New Tools, New Audiences: The role of social media in Geography.” Session organized for the Annual Meeting of the Association of American Geographers, Boston.
- 2007 “Spread the word about Geography: Podcasting, blogging, and the New Media.” Session organized for the Annual Meeting of the Association of American Geographers, San Francisco.
- 2006 “The papyrus calls: a panel on academic publishing.” Session organized for the Annual Meeting of the Association of American Geographers, Chicago.
- 2006 “Getting a Job.” Session organized for the Annual Meeting of the Association of American Geographers, Chicago.
- 2006 “Unfiltered: Podcasting, blogging, and knowledge transmission.” Session organized for the Annual Meeting of the Association of American Geographers, Chicago.
- 2005 “Making your own way: Grant proposal writing for graduate school and beyond” Session organized for the Annual Meeting of the Association of American Geographers, Denver.
- Co-Organizer - GIS in the Appalachians Conference, part of the WVGIS Conference & Workshops 2004 and 2006.

Professional Organizations

- GIS Certification Institute
- Register of Professional Archaeologists
- Association of American Geographers
- Alliance of Digital Humanities Organizations
- International Geographical Union
- North Carolina Geographical Society

Professional Service

- **Treasurer**, North Carolina Geographical Society. 2021-23
- **Past-president**, North Carolina Geographical Society 2019-2021
- **President**, North Carolina Geographical Society. 2017-19
- **Interim-president**, North Carolina Geographical Society. 2016-7
- **Treasurer**, Geography Education Specialty Group of the Association of American Geographers. 2012-2014
- **Chair**, Graduate Student Affinity Group of the Association of American Geographers. 2004-2005
- **Board Member**, Graduate Student Affinity Group of the Association of American Geographers. 2003-2004
- **President**, Monongahela Chapter of the West Virginia Archeology Society. 2000-2001
- **Secretary/Treasurer**, Monongahela Chapter of the West Virginia Archeology Society. 1999-2000

Professional GIS Positions

Geospatial Technology Director/Producer

- *VerySpatial, LLC* 2005-present
- Produce and direct New Media content for Geography and geospatial technologies outreach and conduct GIS training.

GIS Technician

- *Monongalia County Solid Waste Authority; Morgantown, WV* Summer 2008
- Conducted GIS needs assessment, base mapping and database creation to support USDA grant.

Geospatial Technology Coordinator

- *West Virginia University; Morgantown, WV* 2006-2007
- Oversight of GIScience research projects focusing on Humanities GIS in the Laboratory of Geographic Information Science, Department of Geology and Geography, Trevor Harris, PI.

Project Coordinator

- *West Virginia University; Morgantown, WV* 2002-2004
- Coordination of student labor on multiple GIScience projects in the Laboratory of Geographic Information Science, Department of Geology and Geography, Trevor Harris, PI.

GIS Technician

- *West Virginia GIS Technical Center; Morgantown, WV* 2000
- Digitizing, attributing, and error checking for Digital Line Graphs (DLG), summary metadata creation.

Professional Archaeology Positions

Co-Field Supervisor

- *West Virginia University; Morgantown, WV* 1999
- Blennerhassett Island Archaeological Field School, June to August. Gloria Gozdzik, PI.

Staff Archaeologist/Project Director

- *Horizon Research Colsultants, Inc; Morgantown, WV* 1996-1999
- Responsibilities included laboratory director, crew chief, field supervisor, proposal and bid creation, report writing, map making, field crew wrangling, etc. Gloria Gozdzik, PI.

Field Technician

- *3D/E, Inc* 1996
- Phase II excavations at Susan Furnace Project in Gaffney, SC, January. Sara Pfancook, PD.

Field Technician

- *Coastal Carolina Research, Inc* 1995
- Phase III excavations in Ashe County, NC, August. Loretta Lautzenheiser, PI.

Crew Chief

- *Horizon Research Colsultants, Inc; Morgantown, WV* 1995
- Phase I Survey in Pleasants County, WV, August. Gloria Gozdzik, PI.

Field Technician

- *Horizon Research Colsultants, Inc; Morgantown, WV* 1995
- Phase II excavations Woodcraft Project, Wood County, WV, July, and Phase I survey in Nicholas and Fayette Counties, WV, August. Gloria Gozdzik, PI.

Field Technician

- *University of Tennessee Transportation Department; Knoxville, TN* 1995
- Phase III excavations at the Myers Site, Green County, TN, June. Charles Bentz, PI.

Field Technician

- *Appalachian State University; Boone, NC* 1995
- Phase II survey Alarka Tract, National Forest Service, NC, March. Larry Kimball, PI.

Field Assistant

- *Appalachian State University; Boone, NC* 1994
- Field assistant for the ASU annual field school including Phase III excavations at the Swyn Hayes Site, Watauga County, NC, and Phase I survey of the Rodgers Ridge Horse Trail, Virginia. May to June. Thomas Whyte, PI.

Field Technician

- *Appalachian State University; Boone, NC* 1994
- Phase II excavations at Bone Cave, Lee County, VA, March. Larry Kimball, PI.

Archaeological Technical Reports

Reports submitted to the West Virginia Division of Culture and History by Horizon Research Consultants, Inc. unless otherwise noted.

- Gozdzik, G., S. J. Bergeron, **L. J. Rouse**, and J. Mutchka, 1999 *Phase II Cultural Resource Investigation of the proposed Western Regional Jail, Cabell County, West Virginia.*
- Gozdzik, G., S. J. Bergeron, and **L. J. Rouse**, 1999. *Phase I Cultural Resource Investigations of the proposed CNG Transmission TL-474 Ext. 2 Natural Gas Pipeline, Armstrong County, Pennsylvania.* Report submitted to the Pennsylvania Historical & Museum Commission.
- Gozdzik, G., S. J. Bergeron, and **L. J. Rouse**, 1998 *Phase II Cultural Resource Investigations of the proposed Pleasants County Industrial Park.*
- Gozdzik, G., S. J. Bergeron, and **L. J. Rouse**, 1998. *A Cultural Resource Report for the Eastern Allegheny Council for Human Services, Inc. Pendleton County Head Start Center.*
- Gozdzik, G. and **L. J. Rouse**, 1998. *A Management Summary for Gerrardstown Post Office.*
- Gozdzik, G., S. J. Bergeron, **L. J. Rouse**, K. Botham, and S. C. Birdsong, 1998. *A Cultural Resource Report for Greater Harrison County P.S.D. Sanitary Sewer Improvements.*
- Gozdzik, G. and **L. J. Rouse**, 1998. *A Management Summary for the Hardy County Phase IIIA Water System Project.*
- Gozdzik, G., S. J. Bergeron, and **L. J. Rouse**, 1997. *A Predictive Model Integrating GIS and Archeology for the Wyoming-Cloverdale 765kV Transmission Line Project in McDowell, Mercer, Monroe, Raleigh, Summers, and Wyoming Counties, West Virginia. Environmental Assessment.*
- Gozdzik, G., S. J. Bergeron, **L. J. Rouse**, and J. Mutchka, 1997. *A Cultural Resource Report for the Hazelton Water Project, Preston County.*
- Gozdzik, G. and **L. J. Rouse**, 1997. *A Management Summary for the Pleasants County Development authority Industrial Park.*
- Gozdzik, G. and **L. J. Rouse**, 1997. *A Cultural Resource Report for the Logan Middle School Sewer System.*
- Gozdzik, G., S. J. Bergeron, **L. J. Rouse**, and S. C. Birdsong, 1997. *A Cultural Resource Report for the Town of Elizabeth, Palestine Waterline.*
- Gozdzik, G., S. J. Bergeron, **L. J. Rouse**, and S. C. Birdsong, 1997. *A Cultural Resource Report for the Pleasants County Development Authority Industrial Park.*
- Gozdzik, G. and **L. J. Rouse**, 1997. *A Cultural Resource Report for the CNG Transmission Corporation PL-1 Hydrostatic Testing, Franklin County, Pennsylvania.* Report submitted to the Pennsylvania Historical & Museum Commission.
- Gozdzik, G. and **L. J. Rouse**, 1997. *A Cultural Resource Report for the CNG Transmission Corporation PL-1 Hydrostatic Testing, Frederick and Washington Counties, Maryland.* Report submitted to the Maryland Historical Trust.
- Gozdzik, G. and **L. J. Rouse**, 1997. *A Cultural Resource Report for the CNG Transmission Corporation PL-1 Hydrostatic Testing, Loudon County, Virginia.* Report submitted to the Virginia Department of Historic Resources.
- Gozdzik, G. and **L. J. Rouse**, 1997. *A Management Summary for the Fairmont Industrial Credit Corporation, Marion County, West Virginia.*
- Gozdzik, G. and **L. J. Rouse**, 1997. *A Management Summary for the Uphold Trucking, Pisgah Surface Mine Project, Preston County, West Virginia.*
- Gozdzik, G. and **L. J. Rouse**, 1997. *A Cultural Resource Report for the Jackson County Development Authority, Jackson County Rail Spur-Phase II.*
-

- Gozdzik, G., **L. J. Rouse**, and S. C. Birdsong, 1997. *Phase IA Cultural Resources Investigation for the Bluestone Dam Safety Assurance Program*.
- Gozdzik, G., **L. J. Rouse**, and S. C. Birdsong, 1997. *A Cultural Resource Report for the Cottageville Public Service District Wastewater*
- Gozdzik, G. and **L. J. Rouse**, 1997. *A Cultural Resource Report for the Hardy County Public Service District Water System Project*.
- Gozdzik, G., **L. J. Rouse**, K. Botham, and S. C. Birdsong, 1997. *A Cultural Resource Report for the Hardy County Phase IIIA Water System Project*.
- Gozdzik, G., **L. J. Rouse**, K. Botham, and S. C. Birdsong, 1996. *A Cultural Resource Report for the Town of Reedsville Sewage Improvement Project*.
- Gozdzik, G., **L. J. Rouse**, and K. Botham, 1996. *Phase I Archeological Survey for Encore Harbinger Development, Greenbrier County, West Virginia*.
- Gozdzik, G., **L. J. Rouse**, and K. Botham, 1996. *Management Summary for the Route 31 Water Extension Project, Ritchie County, WV*.
- Gozdzik, G., **L. J. Rouse**, and K. Botham, 1996. *A Cultural Resource Report for the Bilco Construction Company, Reader Ridge Borrow Site*.
- Gozdzik, G., **L. J. Rouse**, and K. Botham, 1996. *A Cultural Resource Report for the Belomar Regional Council Valley Grove Wastewater Project*.
- Gozdzik, G. and **L. J. Rouse**, 1995. *A Cultural Resource Report for the Mt. Carmel/Middle Island Creek Water Line*.
- **Rouse, L. J.** and C. P. Claassen, 1995. "Report on Shell Analyses" in *Archaeological Data Recovery at a Single Component Woodland I Prehistoric Site (7S-D-61A)*, by MAAR Associates, Inc.

Informal content

A VerySpatial Podcast, Producer, cohost, and geospatial instructor through VerySpatial, LLC.

- A podcast on Geography & geospatial technologies 2005-Present
- A multi-season YouTube series, VerySpatialTV 2007-Present

Spatial@UNCP

- Originally an audio podcast, rebooted in 2020 as a YouTube video series 2010 and 2020