

CURRICULUM VITAE
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Phillip Daniel Royall

ADDRESS:

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EDUCATION:

- Ph.D. 1997, Geography, University of Tennessee, Knoxville. Dissertation: *Lake-Sediment-Based Evaluation of Sediment Yield and Dynamics, Crooked Run Drainage Basin, Virginia.*
- M.S. 1988, Geology, University of Tennessee, Knoxville. Thesis: *Late Quaternary Paleoecology and Paleoenvironments of the Western Lowlands, Southeast Missouri.*
- B.S. 1986, Geology, North Carolina State University. (*magna cum laude*). Honors Program in Geology. Honors Thesis: *Geomorphic History of Cooks Valley Cave, Northeast Tennessee.*

RESEARCH INTERESTS:

Geomorphology / Soils
Drainage Basin Dynamics
Water Resources
Biogeography / Quaternary Paleoecology
Environmental Magnetism
Dendrochronology
Geoarchaeology

EMPLOYMENT HISTORY:

- 2006–current Associate Professor, University of North Carolina at Greensboro, Department of Geography, Environment, and Sustainability
- 2003–2006 Assistant Professor, University of North Carolina at Greensboro, Department of Geography
- 1998–2003 Assistant Professor, University of Alabama, Department of Geography
- 1997 Thermo NUtech (Oak Ridge, Tennessee), Data Analyst and Deputy Project Manager (Johnston Atoll Plutonium-Contaminated Soil Remediation Project).
- 1996 University of Tennessee, Department of Geography, Lecture Instructor
- 1989–91 New York State Biological Survey / State Museum, Research Technician.

PROFESSIONAL MEMBERSHIPS

Association of American Geographers (AAG)
Geomorphology Specialty Group of the AAG
Southeastern Division, Association of American Geographers
Geological Society of America (GSA)
Quaternary Geology and Geomorphology Division of GSA
Carolina Geological Society

RESEARCH

PUBLICATIONS: (* MA student advisees)

In Review

- (+) Blount, J., Knapp, P.A., **Royall, D.**, (in review). Influence of edaphic conditions on seasonal and annual temperature trends in the North Carolina Piedmont region. Submitted to *Physical Geography*.
- (+) Reynolds, J.*, **Royall, D.**, (in review). Morphological response to reduced discharge on a losing Catawba River bifurcate; Submitted to *Geomorphology*.

Published

- (26) Johnson, P.*, **Royall, D.**, 2018. Evaluating the effects of urbanization age on the morphology of low-order urban streams in the U.S. southern Piedmont. *Physical Geography*, 40(1), 1-27. DOI: 10.1080/02723646.2018.1487635

- (25) Karimi, F., Sultana, S., Babakan, A.S., **Royall, D.**, 2018. Land suitability evaluation for organic agriculture of wheat using GIS and multicriteria analysis. *Papers in Applied Geography*, <https://doi.org/10.1080/23754931.2018.1448715>
- (24) **Royall, D.**, 2017. *Watersheds*. In: Richardson, D., Castree, N., Goodchild, M.M., Kobayashi, A., Liu, W., and Marston, R.A., (Eds.), *The International Encyclopedia of Geography*. John Wiley & Sons, Ltd., DOI: 10.1002/9781118786352.wbieg0466; 12 p.
- (23) **Royall, D.**, Kennedy, L., 2016. Historical erosion and sedimentation in two small watersheds of the southern Blue Ridge Mountains, North Carolina, USA, *Catena* 143, 174-186.
- (22) Sorrells, R. *, **Royall, D.**, 2014. Channel bifurcation and adjustment on the upper Yadkin River, North Carolina (USA). *Geomorphology* 223, 33-44.
- (21) **Royall, D.**, 2013. Land use impacts on the hydrogeomorphology of small watersheds. In: Shroder, J. (Editor in Chief), James, L.A., Harden, C.P., Clague, J.J. (Eds.), *Treatise on Geomorphology*. Academic Press, San Diego, CA, vol. 13, *Geomorphology of Human Disturbances, Climate Change, and Natural Hazards*, pp. 28–47.
- (20) Hunt, K. *, **Royall, D.**, 2013. A LiDAR-based analysis of stream channel cross section change across an urban–rural land-use boundary . *The Professional Geographer*, Volume 65, Issue 2 pp. 296-311 | DOI: 10.1080/00330124.2012.681517.
- (19) **Royall, D.**, Davis, L., Kimbrow, D.R., 2010. In-channel alluvial benches in small watersheds: examples from the Southern Piedmont. *Southeastern Geographer* 50(4), 445-467. Special issue: Small Watersheds of the Southeast.
- (18) Shoffner, D. *, **Royall, D.** 2008. Hydraulic habitat composition and diversity in rural and urban stream reaches of the North Carolina Piedmont (USA). *River Research and Applications* 24, 1082-1103.
- (17) **Royall, D.** 2007. A mineral-magnetic assessment of urban sediment sources and drainage basin processes. *Water Resources Research Institute Technical Report No. 375*, Project # UNC-WRRI-50367, 41 p.
- (16) **Royall, D.**, 2007. A comparison of mineral-magnetic and distributed RUSLE modeling in the assessment of soil loss on a southeastern U.S. cropland, *Catena* 69, 170-180.
- (promotion to Associate Professor)
- (15) Landgraf, C. *, **Royall, D.**, 2006. Hillslope magnetism and soil redistribution across a fallow field in the Tennessee Valley of Alabama. *Southeastern Geographer* 46(1), 1-22.

- (14) **Royall, D.**, Han, L., 2005. Surface soil magnetism and the spectral characteristics of agricultural soils, Gilbert Farm, Alabama (USA). *Advances in Environmental Monitoring and Modelling*, 2 (1), 16-38.
- (13) **Royall, D.**, 2004. Particle-size and analytical considerations in the mineral-magnetic interpretation of soil loss from cultivated landscapes. *Catena* 57, 189-207.
- (12) **Royall, D.**, 2003. A 50-year record of sediment yield and sources from Wolf Branch, North Carolina., *Professional Geographer* 55 (3), 356-371.

(joined UNCG)

- (11) **Royall, D.**, 2001. Use of mineral magnetic measurements to investigate soil erosion and sediment delivery in a small agricultural catchment in limestone terrain". *Catena* 46, 15-34.
- (10) **Royall, D.**, 2000. Dendroecological evidence of flooding along a small Appalachian stream. *Southeastern Geographer*. Vol. XXXX (2), 151-167.
- (9) **Royall, D.**, 2000. Lake-sediment-based evaluation of recent sediment yield from a small Appalachian watershed, Thompson Lake, Virginia. *Physical Geography* 21(1), 68-88.

(joined the University of Alabama)

- (8) Delcourt, H.R., Delcourt, P.A., **Royall, P.D.**, 1997. Late-Quaternary Vegetational History of the Western Lowlands." in Morse, D.F. (ed.), *Sloan: A Paleoindian Dalton Cemetery in Arkansas*. Smithsonian Institution Press, Washington.
- (7) Clark, J.S., **Royall, P.D.**, 1996. Local and regional sediment charcoal evidence for fire regimes in presettlement north-eastern North America. *Journal of Ecology* 84, 365-382.
- (6) Clark, J.S., **Royall, P.D.**, Chumbley, C., 1996. The role of fire during climate change in an eastern North American forest at Devil's Bathtub, New York. *Ecology* 77, 2148-2166.
- (5) Clark, J.S., Hussey, T., **Royall, P.D.**, 1996. Presettlement analogs for Quaternary fire regimes in eastern North America. *Paleolimnology* 16, 79-96.
- (4) Clark, J.S., **Royall, P.D.**, 1995. Particle-size evidence for source areas of charcoal accumulation in Late Holocene sediments of eastern North American lakes. *Quaternary Research* 43, 80-89.
- (3) Clark, J.S., **Royall, P.D.**, 1995. Transformation of a northern hardwood forest by aboriginal (Iroquois) fire: charcoal evidence from Crawford Lake, Ontario, Canada. *The Holocene* 5/1, 1-9.
- (2) Clark, J.S., **Royall, P.D.**, 1994. Pre-industrial particulate emissions and carbon sequestration from biomass burning in North America." *Biogeochemistry* 23, 35-51.

- (1) **Royall, P.D.**, Delcourt, P.A., Delcourt, H.R., 1991. Late Quaternary paleoecology and paleoenvironments of the Central Mississippi Alluvial Valley. *Geological Society of America Bulletin* 103, 157-170.

Book reviews

- (1) **Royall, D.**, 2003. Review of: *Mount Mitchell & the Black Mountains: An Environmental History of the Highest Peaks in Eastern North America*. author: Timothy Silver. The University of North Carolina Press, Chapel Hill, NC. Published in: *Southeastern Geographer*, v. XXXXIII (2), 309-312.

Extended abstracts

- (1) **Royall, P.D.**, 1996. Application of magnetic susceptibility and radionuclide analyses of lake sediment to sediment yield studies in a small Appalachian catchment." Extended Abstract from *Proceedings of the 6th Tennessee Water Resources Symposium*, Sediment Yield Issues, Nashville, Tennessee.

Popular Articles

- (2) **Royall, D.**, 2000. A brief history of the (vertical) world: Appalachian geology for rock climbers, PART 1." *Boulderdash* (Appalachian Climbing Quarterly), 26, 15-17.
- (1) **Royall, D.**, 2000. A brief history of the (vertical) world: Appalachian geology for rock climbers, PART 2." *Boulderdash* (Appalachian Climbing Quarterly), 27, 26-27.

RESEARCH PRESENTATIONS AT PROFESSIONAL MEETINGS:

(* graduate student advisee; ** undergraduate research advisee)

- (45) **Royall, D.**, 2019. "Urban riparian regolith characteristics in a southern Piedmont watershed"; Annual Meeting of the American Association of Geographers, Washington, D.C.
- (44) Reynolds, J.* **Royall, D.**, 2018. "Frequency and morphometry of fluvial islands in the North Carolina Piedmont". Southeastern Division of the American Association of Geographers Annual Meeting, Johnson City, Tennessee.
- (43) Reynolds, J.* **Royall, D.** 2016. "Morphological response to reduced discharge on a losing Catawba River bifurcate". Southeastern Division of the Association of American Geographers Annual Meeting, Columbia, South Carolina.
- (42) **Royall, D.**, Kennedy, L., 2014. "Historical valley alluviation and sediment budgets

at Bent Creek, North Carolina”. Southeastern Division of the Association of American Geographers Annual Meeting, Athens, Georgia.

- (41) Sorrells, R.*, **Royall, D.**, 2014. “Channel bifurcation and adjustment on the upper Yadkin River, North Carolina (USA)”. Southeastern Division of the Association of American Geographers Annual Meeting, Athens, Georgia.
- (40) **Royall, D.**, Kennedy, L., 2013. "Spatial distribution of historical overbank sedimentation in the Bent Creek watershed, North Carolina." Southeastern Division of the Association of American Geographers Annual Meeting, Roanoke, Virginia.
- (39) Sorrells, R.*, **Royall, D.**, 2012. “Hydrogeomorphology of In-Channel Alluvial Benches in an Anabranching Reach of the Upper Yadkin River, North Carolina.” Southeastern Division of the Association of American Geographers Annual Meeting, Asheville, North Carolina.
- (38) Kennedy, L.*, **Royall, D.**, 2012. “Nineteenth century sediment yield and sediment delivery in southern Appalachia. Southeastern Division of the Association of American Geographers Annual Meeting, Asheville, North Carolina.”
- (37) Kennedy, L.*, **Royall, D.**, 2012. “Legacy sediment in low-order highland streams. Geological Society of America Annual Meeting, Charlotte, North Carolina.”
- (36) Davis, L., **Royall, D.**, 2012. "Changes in valley sedimentation in southern Piedmont streams." Geological Society of America Annual Meeting, USA, North Carolina.
- (35) M.L. Joseph, Z. Atlas, **D. Royall**, M.A. Pasek, 2010. “Geochemical analysis of a type II fulgurite.” 73rd Annual Meeting of The Meteoritical Society, New York, NY.
- (34) Hunt, K.*, **Royall, D.**, 2010. “Use of LiDAR data in defining the urban-rural transition zone in stream cross-section morphology”. Annual Meeting of the Association of American Geographers, Washington, DC.
- (33) Davis, L., **Royall, D.**, 2010. “In-channel alluvial benches and incipient floodplains in selected Piedmont streams of the Southeastern US”. Association of American Geographers Annual Meeting, Washington, DC.
- (32) **Royall, D.**, Davis, L. 2009. “In-Channel Alluvial Benches in Small Watersheds: Examples from the Southern Piedmont”. Southeastern Division Association of American Geographers Annual Meeting, Knoxville, TN.
- (31) Hunt, K.*, **Royall, D.**, 2009. “Use of LiDAR Data in Defining the Urban-Rural Transition Zone in Stream Cross-Section Morphology”. Southeastern Division of the Association of American Geographers Annual Meeting, Knoxville, TN.

- (30) **Royall, D.**, Owusu-Adjei, J.*, Henderson, A.**, 2009. "Contrasting Characteristics of Woody Debris in Urban and Rural Streams: An Example from the North Carolina Piedmont". Association of American Geographers Annual Meeting; Las Vegas, NV.
- (29) **Royall, D.**, 2008. "Fluvial Overbank Sedimentation Along the Urban-Rural Transition: A Study From the North Carolina Piedmont". Association of American Geographers .
- (28) Liu, Z.J., **Royall, D.**, 2007. "Hydrologic Metrics as Indices of Urban Influences on Streamflow Regime". Southeastern Division of the Association of American Geographers Annual Meeting, Charleston, SC.
- (27) **Royall, D.**, Henderson, A.**, Liu, Z. J. 2007. "Downstream Reduction of Urban Influence on Channel Processes: a Case Study." Annual Meeting of the Association of American Geographers, San Francisco, CA.
- (26) Liu, ZJ, **Royall, D.**, Henderson, A.** 2007. "Long-term Dynamics and Downstream Propagation of Urban Influences on Hydrologic Regime" Annual Meeting of the Association of American Geographers, San Francisco, CA.

(promotion to Associate Professor)

- (25) **Royall, D.**, Shoffner, D.*, Henderson, A.** 2006. "Hydraulic Biotope Composition in Urban and Rural Piedmont Streams. Annual Meeting of the Association of American Geographers, Chicago, Illinois.
- (24) Shoffner, D.* , **Royall, D.**, Henderson, A.** 2005. "Hydraulic biotope diversity in urban and rural streams". 36th Binghamton Geomorphology Symposium, *Geomorphology and Ecosystems*, Buffalo, New York.
- (23) **Royall, D.** 2005. "A Magnetic Assessment of Urban Surface Sediment". Annual Meeting of the Association of American Geographers, Denver, Colorado.
- (22) **Royall, D.**, 2004. "A Mineral-Magnetic Assessment of Urban Sediment Sources". Annual meeting of the Southeastern Division of the Association of American Geographers, Biloxi, Mississippi.
- (21) **Royall, D.**, 2004. "Historical erosion and sedimentation in a mountain hollow watershed, NC". Annual Meeting of the Association of American Geographers, Philadelphia, PA.

(joined UNCG)

- (20) **Royall, D.**, Han, L. 2003. "Surface soil magnetism, spectral characteristics and erosion status of cropland". Annual Meeting of the Association of American Geographers, New Orleans, Louisiana.

- (19) **Royall, D.**, 2002. "A comparison of two methods for distributed assessment of cumulative soil loss." Annual meeting of the Southeastern Division of the Association of American Geographers, Richmond, Virginia.
- (18) **Royall, D.**, 2002. "Evaluation of a model linking soil magnetism and erosion on farmland". Annual Meeting of the Association of American Geographers, Los Angeles, California.
- (17) **Royall, D.**, 2001. "Lake sediment magnetism and sediment source tracing at Wolf Branch, NC". Annual meeting of the Southeastern Division of the Association of American Geographers, Lexington, Kentucky.
- (16) **Royall, D.**, 2001. "Hillslope Magnetism, Erosion and Sediment Delivery in a Small Agricultural Basin". Annual Meeting of the Association of American Geographers, New York, New York.
- (15) **Royall, D.**, 2000. "Hillslope Magnetism, Soil Characteristics and Soil Erosion in a Small Limestone Basin". Annual meeting of the Southeastern Division of the Association of American Geographers, Chapel Hill, North Carolina.
- (14) Landgraf, C.* **Royall, D.**, 2000. "Patterns of Slope Magnetism and Topsoil Redistribution Across a Shallow Hillslope Hollow". Annual meeting of the Southeastern Division of the Association of American Geographers, Chapel Hill, North Carolina.
- (13) **Royall, D.**, 2000. "Hillslope Magnetism and Historical Soil Erosion." Annual Meeting of the Association of American Geographers, Pittsburgh, Pennsylvania.
- (12) Shankman, D., **Royall, D.**, 2000. "Pattern and Process of an Anastomosing Stream in the United States Coastal Plain." Annual Meeting of the Association of American Geographers, Pittsburgh, Pennsylvania.
- (11) Landgraf, C.* , **Royall, D.**, 2000. "An Analysis of Magnetic Measurements as a Viable Means to Locate Areas of Sediment Storage on a Hillslope". 9th Annual Southeastern Lakes Management Conference (North American Lake Management Society), Columbus, Georgia.
- (10) **Royall, P.D.**, 1999. "Dendroecological Evidence of Flooding Along Small Appalachian Streams." Annual meeting of the Southeastern Division of the Association of American Geographers, Tampa, Florida.
- (9) **Royall, P.D.**, 1999. "Land Use and Watershed Recovery, Wolf Branch Watershed, North Carolina." Annual Meeting of the Association of American Geographers, Honolulu, Hawai'i.
- (8) **Royall, P.D.**, 1998. "A Lake Sediment Based Sediment Yield Record from Deer Lake, North Carolina." Annual meeting of the Southeastern Division of the Association of American Geographers, Memphis, Tennessee.

(joined the University of Alabama)

- (7) **Royall, P.D.**, 1998. "Sediment Yield Studies Using Lake Sediment, Bent Creek, North Carolina." Annual meeting of the Association of American Geographers, Boston, Massachusetts.
- (6) **Royall, P.D.**, 1997. "Flood Sediment Yield Estimation Using Lake Sediment, Crooked Run, Virginia." Annual meeting of the Association of American Geographers, Fort Worth, Texas.
- (5) **Royall, P.D.**, 1996. "Lake-Sediment-Based Evaluation of Sediment Yield, Crooked Run, Virginia." Annual meeting of the Association of American Geographers, Charlotte, North Carolina.
- (4) **Royall, P.D.**, 1996. "Application of Magnetic Susceptibility and Radionuclide Analyses of Lake Sediment to Sediment Yield Studies in a Small Appalachian Catchment." Sixth Tennessee Water Resources Symposium, Nashville, Tennessee.
- (3) **Royall, P.D.**, 1995. "Use of Fluvially-Disturbed Trees for Reconstructing High Flow Event History in Small (2nd-order) Mountain Catchments: a Study from the Blue Ridge Mountains, Northern Virginia." Twenty-sixth Binghamton Geomorphology Symposium, Charlottesville, Virginia. (poster presentation).
- (2) **Royall, P.D.**, Clark, J.S., Chumbley, C., 1989. "Long-term Fire and Vegetation Change in Hardwood Forests of Central New York." New York Natural History Conference I, Albany, New York.
- (1) **Royall, P.D.**, Delcourt, P.D., Delcourt, H.R., 1988. "Late-Quaternary Paleoecology and Paleoenvironments of the Central Mississippi Alluvial Valley." Centennial meeting of the Geological Society of America, Denver, Colorado.

INVITED COLLOQUIA

- (9) **Royall, D.**, 2017. "Historical erosion, sediment budgeting and legacy sediment in southeastern U.S. steep lands". The University of North Carolina at Greensboro.
- (8) **Royall, D.**, 2011. "Historical and Recent Erosion and Sedimentation in Small Watersheds of the Blue Ridge". The University of Georgia.
- (7) **Royall, D.**, 2009. "The Davisian Erosion Cycle and Other Alternatives; Competing Perspectives on Regional Landscape Evolution in North Carolina Since 1950". Guilford College Geosciences.
- (6) **Royall, D.**, 2009. "Urbanization and the Physical Environment Within Stream Channels". UNC-Chapel Hill

- (5) **Royall, D.**, 2008. "Fluvial Process, Form and In-channel Habitat in Rural and Urban Piedmont Landscapes" UNC-Wilmington.
- (4) **Royall, D.**, 2004. "Case Studies in Magneto-Sedimentology: Applications in Geomorphology and Allied Fields". East Carolina University.
- (3) **Royall, D.**, 2003. "Research history and current directions in geomorphological and biogeographical research." UNC-Greensboro Geography Club, first fall meeting.
- (2) **Royall, D.**, 2000. "Erosion, sedimentation and environmental magnetism: applications to the study of extreme events". Southeastern Virtual Consortium for Extreme Event Research (SEVEER) Workshop, University of Alabama.
- (1) **Royall, D.**, 1999. "Applications of magnetic measurements to studies of watershed erosion and sediment yield". University of Alabama, Department of Geosciences Seminar.

TEACHING

COURSES TAUGHT (*GES-prefix-UNCG; GY-prefix-U. of Alabama*)

GES 103 *Earth Science*

GES 111/111L *Physical Geology (w/ lab)*

GES 314/314L *Geomorphology (w/ lab)*

GES 330 *Hydrology*

GES 761 *History of Geographic Thought*

GES 601 *Research Trends in Geography - Physical*

GES 641 *Fluvial Geomorphology*

GES 605 *Watersheds and Soils*

GES 690 *Research in Applied Geography: remote sensing of streams; wetland characterization; discharge rating curves; landslide identification and prediction models; spatial analysis of hydraulic biotopes, woody debris and rivers, environmental magnetism and lake sediment, soil science, ...many others*

GY 417/517 (G/UG) *Natural Hazards*

GY101 *Physical Geography of the Natural Environment I (Climatology)*

GY 102 *Physical Geography of the Natural Environment II (Landforms/Soils)*

GY 383/532 (UG/G) *Soil Science and Lab*

GY370 *Geomorphology and Lab*

GY 410/510 *Water Resources*

GY 486/586 *Drainage Basin Dynamics*

SERVICE

Discipline

Professional Organization

- 2011–2013 Advisory Committee, AAG Geomorphology Specialty Group.
2013 Annual SEDAAG meeting (Roanoke, VA); Geomorphology specialty session co-organizer (with Lisa Davis, U. of Alabama); and Session Chair.
2010 Chair, AAG Geomorphology Specialty Group.
2009 Secretary-Treasurer, AAG Geomorphology Specialty Group.
2009 Chair, Awards Committee of the AAG Geomorphology Specialty Group.
2006–2009 Awards Committee of the AAG Geomorphology Specialty Group.
2007–2008 North Carolina State Representative to SEDAAG
2005 Elected to SEDAAG Honors Committee
2004 Annual SEDAAG meeting (Biloxi, MS); Geomorphology specialty sessions co-organizer (with Allan James, U. of South Carolina); Chair for 2 sessions.
2004 Annual SEDAAG meeting (Biloxi) Program Committee
2002 Annual SEDAAG meeting (Richmond) Program Committee
2002 Alabama State Representative to Southeastern Division of the Association of American Geographers (SEDAAG).
2001 Nominations Committee, Southeastern Division of the Association of American Geographers (SEDAAG).
2000–2003 Alabama Team Coordinator, World Geography Bowl; Annual Meetings of the Southeastern Division of the Association of American Geographers.
1998–2000 Paper Discussant, Annual Meetings of the Southeastern Division of the Association of American Geographers

Professional Journal Article Referee; (years)

Catena (2016, 2015, 2015, 2015, 2008, 2004)

Geomorphology (2018, 2017, 2017, 2016, 2016, 2014, 2014, 2011, 2008, 2004, 2002)

Geophysical Research Letters (2003)

Journal of Environmental Management (2006)

Journal of the American Water Resources Association (2008)

Landscape Ecology (2000)

Northeastern Geographer (2008)

Paleolimnology (2007)

Physical Geography (2018, 2015, 2015, 2015, 2013, 2011, 2011, 2009)

Professional Geographer (2003)

Progress in Physical Geography (2019)

River Research and Applications (2016)

Southeastern Geographer (2016, 2013, 2010, 2006, 2004, 2003, 2002, 2001)

Tree-Ring Bulletin (2003)

Research Funding Proposal Reviews; (years)

NSF (Geography and Spatial Science) (2014, 2006, 2006)

National Geographic Society (2014, 2006)

1998- 2003 SEDAAG UA departmental membership coordinator.

College of Arts and Sciences

UNC-Greensboro

AY 2017 and 2018 Promotion and Tenure Committee, College of Arts and Sciences
2016–current Event Leader, Regional Science Olympiad; B&C Divisions (annual)
2017–current Wetlands Research Subcommittee
2015–current Wetlands Committee; RISE STEM Education Collaborative.
2003–current Archaeology Program faculty, and Steering Committee
2013–current Faculty mentor for the Science and Technology Undergraduate Scholars (STAMPS) program. In addition to mentoring students in the program, other activities include:
- Led Tennessee wild caving and paleoenvironmental excursion
- Co-led group hikes to important natural history locales
2011 Undergraduate Research Symposium, Best Science Paper judge.
2004, 2005 Event Leader, Regional Science Olympiad, Dynamic Planet; Divisions B and C.
2004 Soil texturing demonstration for Ecology graduate course taught by Dr. Elizabeth Lacey (UNCG Biology Dept.)

U. of Alabama

2000-2003 Geography Dept. representative; Regional Science Olympiad, University of Alabama. "Dynamic Planet" B and C divisions; "Weather or Not" B and C divisions.
2000–2001 Alternate, Arts and Sciences Senator, Faculty Senate.
2000 Geography Dept. representative; University focus group on undergraduate science education.

University

UNC-Greensboro

2015–2018 Faculty Senate
2017 Elections Committee of the Faculty Senate
2016–current Lloyd International Honors Program teaching fellow
2015 Alumni, Hayes & Excellence Fellowships Review Committee
2015 General Ed. Natural Sciences SLO revision committee
2005–2008 Undergraduate Curriculum Committee

U. of Alabama

2003 Chair, Research Advisory Committee
2003 Capstone Scholar's Day Presentation
2001–2003 Research Advisory Committee.

University of Tennessee

- 1996 Volunteer, Earth 2U Exhibit (National Geographic Society), University of Tennessee, McClung Museum.
- 1994–95 Graduate student representative to the faculty.
- 1994 Graduate student member, new faculty search committee.
- 1993–94 Coordinator, departmental Geography Awareness Week Open House, local school visitation and other associated activities.

N.C. State University

- 1985 President, Geology Club, North Carolina State University, Department of Marine, Earth and Atmospheric Sciences.

Community

(North Carolina)

- 2008–2017 Haw River State Park; Annual soil science training for environmental education staff.
- 2014 Snow Creek (NC); analysis and advising on erosion and sedimentation issues related to small dam release management.
- 2012 Piedmont Plateau section of the Sierra Club and Guilford County Open Space Committee; Geological assessment and education plaque development for the Bold Moon open space trail,
- 2007 Haw River State Park; Soil pit excavation and description for environmental education programming.
- 2005 Guided field excursion to Greensboro streams for Guilford County high school environmental science teachers; (contact, Jessica Bohn).
- 2004 Technical assistance in support of Invertebrate Fossil activities, Kernodle Middle School, Guilford County, NC.

(Alabama)

- 2003 Technical assistance for Tuscaloosa Children's Hands-on Museum *Invertebrate Fossil* education program.
- 2002 Soil science program; Maxwell Elementary School, Tuscaloosa County, AL.
- 2002 Technical assistance with Tuscaloosa Children's Hands-on Museum *Down and Dirty* soil education program.
- 2001 State Spotlight on Science Week; Soil program, Rock Quarry Elementary School, Tuscaloosa, AL.
- 2001 Field interview / commentary for *Discovering Alabama* television show (PBS) and videotape series on the nature, properties, uses and conservation of soils. (Aired summer of 2002; video tape available for purchase).
- 2000 "The Dam Controversy". Water resources lecture for LEGACY (environmental education) teacher's workshop.
- 1999–2000 Technical and field assistance for the Tree Top-ology environmental education

- initiative administered through the University of Alabama Arboretum, and the Children's Hands-On Museum of Tuscaloosa.
- 1999–2003 Assistance with soil characterization in support of the GLOBE (Global Learning and Observations to Benefit the Environment) science education program at West Alabama schools. (elementary through 12th grade).

OTHER EXPERIENCE

- 2010 Certificate of Training in Ground Penetrating Radar.
- 1996 Certificate of Accomplishment, Oak Ridge National Laboratory, Environmental Sciences Division, Gamma-Ray Spectrometry, (under I.L. Larsen).
- 1995 6th Annual North American Dendroecological Fieldweek, Kananaskis Field Station (University of Calgary), Alberta, Canada.