

Peter T. Soulé
Curriculum vitae - April 2021

EDUCATION:

- Ph.D., 1989 Geography. University of Georgia, Athens, Georgia. Dissertation: “Spatial and Temporal Patterns of Multiple Drought Types.”
- M.A., 1984 Geography. Appalachian State University, Boone, North Carolina. Thesis: “Topoclimatic Influences on Heating Degree Days in Complex Terrain.”
- B.A., 1980 Geography. Florida Atlantic University, Boca Raton, Florida.

PROFESSIONAL EXPERIENCE:

- 2000-current: Professor. Department of Geography and Planning, Appalachian State University.
- 2012-2014: Faculty-in-Residence, Appalachian State University
- 2014: Faculty, Summer Ventures Program, Appalachian State University
- 2013: Faculty, Summer Ventures Program, Appalachian State University
- 2012: Graduate Program Coordinator. Department of Geography and Planning, Appalachian State University (Spring Semester).
- 2005: Graduate Program Coordinator. Department of Geography and Planning, Appalachian State University (Spring Semester).
- 2000-2002: Graduate Program Coordinator. Department of Geography and Planning, Appalachian State University.
- 1996-2000: Associate Professor. Department of Geography and Planning, Appalachian State University.
- 1993-1996: Assistant Professor. Department of Geography and Planning, Appalachian State University.
- 1989-1993: Assistant Professor. Department of Geography, University of Alabama.

REFEREED PUBLICATIONS (Journals):

- 2021 Soulé, P. T., Knapp, P. A., Maxwell, J. T., and Mitchell, T. J. A comparison of the climate response of longleaf pine (*Pinus palustris* Mill.) trees among standardized measures of earlywood, latewood, adjusted latewood, and totalwood radial growth. *Trees*. doi.org/10.1007/s00468-021-02093-z. ISI Impact Factor: 2.13.
- 2021 Jonaitis, J. J., Perry, L. B., Soulé, P. T., Thaxton, C., Andrade-Flores, M. F., Vargas, T. I., and Ticona, L.. Spatiotemporal patterns of ENSO-precipitation relationships in the tropical Andes of southern Peru and Bolivia. *International Journal of Climatology*. DOI: 10.1002/joc.7058. ISI Impact Factor: 3.61.
2020. Kaiser, A. L., Soulé, P. T., van de Gevel, S. L., Knapp, P. A., Bhuta, A., Walters, J., and Montpellier, E. E. . Dendroecological investigation of red-cockaded woodpecker cavity tree selection in endangered longleaf pine forest. *Forest Ecology and Management*. V 473: 118291. ISI Impact Factor: 3.13.
- 2020 Montpellier, E. E., Knapp, P. A., Soulé, P. T., and Maxwell, J. T. Microelevational differences affect longleaf pine (*Pinus palustris* Mill.) sensitivity to tropical cyclone precipitation: a case study using LiDAR". *Tree-ring Research*. Vol. 76(2), 2020, pp. 89–93. ISI Impact Factor: 1.12.
- 2020 Knapp, P. A., Soulé, P. T., Maxwell, J. T., Ortegren, J. T., and Mitchell, T. J. Tropical cyclone precipitation regimes since 1750 and the Great Suppression of 1843–1876 along coastal North Carolina, USA. *International Journal of Climatology*. 41(1), pp.200-210. ISI Impact Factor: 3.61.
- 2020 Montpellier, E. E., Soulé, P. T., Knapp, P. A., and L. Baker Perry. Reconstructing summer upper-level flow in the northern Rocky Mountains using an alpine larch tree-ring chronology. *Climate Research*. V 79:207-2018. ISI Impact Factor: 1.95
- 2019 Soulé, P. T. and Knapp, P. A. Radial growth rate responses of western juniper (*Juniperus Occidentalis* Hook.) to atmospheric and climatic changes: A longitudinal study from central Oregon, USA. *Forests*. DOI: 10.3390/f10121127. ISI Impact Factor: 2.12.
- 2019 Soulé, P. T., and Knapp, P. A. A 400-year reconstruction of wintertime Arctic sea-ice Extent using a high-elevation, mid-latitude tree-ring record. *International Journal of Biometeorology*. V. 17: 1-13. ISI Impact Factor: 2.38.
- 2019 Soulé, P. T., Maxwell, J. T., and Knapp, P. A. Climate-growth responses from *Pinus Ponderosa* trees using multiple measure of annual radial growth. *Tree-Ring Research*. V. 75: 1-9. ISI Impact Factor: 1.12.

- 2019 Montpellier, E. E., Soulé, P. T., Knapp, P. A. and Maxwell, J. T. Dendroclimatic assessment of ponderosa pine radial growth along elevational transects in western Montana, U.S.A. *Forests*. DOI: 10.3390/f10121094. ISI Impact Factor: 2.12
- 2019 Bregy, J. C., Maxwell, J. T., Robeson, S. M., Ortegren, J. T., Soulé, P. T., and Knapp, P. A. Spatiotemporal variability of tropical cyclone precipitation using a high-resolution, gridded (0.25° x 0.25°) dataset for the eastern United States, 1948–2015. *Journal of Climate*. DOI: <https://doi.org/10.1175/JCLI-D-18-0885.1>. ISI Impact Factor: 4.81.
- 2018 Eck, M. A., Perry, L. B., Soulé, P. T., Sugg, J. W. and Miller, D. K. Winter climate variability in the southern Appalachian Mountains, 1910-2017. *International Journal of Climatology*. V 39: 206-2017. DOI: 10.1002/joc.5795. ISI Impact Factor: 3.61.
- 2018 Montpellier, E. E., Soulé, P. T., Knapp, P. A., and Shelly, J. S. Divergent growth rates of alpine larch trees (*Larix lyallii* Parl.) in response to microenvironmental variability. *Arctic, Antarctic, and Alpine Research*. V. 50:1, e1415626-1. ISI Impact Factor: 2.23.
- 2017 Maxwell, J. T., Knapp, P. A., Ortegren, J. T., Ficklin, D. L., and Soulé, P. T. Changes in the mechanisms causing rapid drought cessation in the southeastern United States. *Geophysical Research Letters*. V. 44: 12,476-12,483 <https://doi.org/10.1002/2017GL076261>. ISI Impact Factor: 4.34.
- 2017 Knapp, P. A. and Soulé, P. T. Spatio-temporal linkages between declining Arctic sea-ice extent and increasing wildfire activity in the western United States. *Forests*. V. 8: 313, doi:10.3390/f8090313. ISI Impact Factor: 2.88.
- 2016 Knapp, P.A, Maxwell, J.T., and Soulé, P.T. Tropical cyclone rainfall variability in Coastal North Carolina derived from longleaf pine (*Pinus palustris* Mill.): AD 1771–2014. *Climatic Change*. V. 135: 311-323. ISI Impact Factor: 4.17.
- 2016 D. Austin, S. L. van de Gevel, and P. T. Soulé. Forest dynamics and climate sensitivity of an endangered Carolina hemlock community in the southern Appalachian Mountains, U. S. A. *Botany*. V. 94: 301-309. ISI Impact Factor: 1.18.
- 2016 P. A. Knapp, J. T. Maxwell, J. T. Ortegren, and P. T. Soulé. Spatio-temporal changes in comfortable weather duration in the continental U.S. and implications for human wellness. *Annals of the Association of American Geographers*. V. 106: 1-18. ISI Impact Factor: 2.291.
- 2015 D. Martin, L. B. Perry, D. Miller, and P. T. Soulé. “Snowfall Event Characteristics From a High-elevation Site in the Southern Appalachian Mountains, USA.” *Climate Research*. V. 63: 171-190. 2014 ISI Impact Factor: 2.71.

- 2015 P. T. Soulé and P. A. Knapp. "Analyses of Intrinsic Water-use Efficiency Indicate Performance differences of Ponderosa Pine and Douglas-fir in Response to CO₂ Enrichment." *Journal of Biogeography*. V. 42: 144-155. 2014 ISI Impact Factor: 4.97.
- 2014 P. B. White, P. T. Soulé, and S. van de Gevel. "Impacts of Human Disturbance on the Temporal Stability of Climate-Growth Relationships in a Red Spruce Forest, Southern Appalachian Mountains, USA." *Dendrochronologia*. V. 32: 71-77. 2012 ISI Impact Factor: 1.48.
- 2013 P. T. Soulé and P. A. Knapp. "Radial Growth Rates of Two Co-occurring Coniferous Trees in the Northern Rockies during the Past Century." *Journal of Arid Environments*. V. 94: 87-95. 2012 ISI Impact Factor: 1.72.
- 2013 J. T. Maxwell, J. T. Ortégren, P. A. Knapp, and P. T. Soulé. "Tropical Cyclones and Drought Amelioration in the Gulf and Southeastern Coastal United States." *Journal of Climate*. (doi:10.1175/JCLI-D-12-00824.1). 2012 ISI Impact Factor: 4.1.
- 2013 P. A. Knapp, P. T. Soulé and J. T. Maxwell. "Mountain Pine Beetle Selectivity in Old-Growth Ponderosa Pine Forests, Montana, USA." *Ecology and Evolution*. (DOI – 10.1002/ece3.522). 2012 ISI Impact Factor: 1.18.
- 2012 G. M. Kelly, B. F. Taubman, L. B. Perry, J. P. Sherman, P. T. Soulé, and P. J. Sheridan. "Relationships between Aerosols and Precipitation in the Southern Appalachian Mountains." *International Journal of Climatology*. DOI: 10.1002/joc.3632. 2011 ISI Impact Factor: 2.91.
- 2012 G. M. Kelly, L. B. Perry, B. Taubman, and P. T. Soulé. "Synoptic Classification of Precipitation Events in the Southern Appalachian Mountains." *Climate Research*. V. 55: 1-15. 2011 ISI Impact Factor: 1.99.
- 2012 P. White, S. van de Gevel, and P. T. Soulé. "Succession and Disturbance in an Endangered Red Spruce-Fraser Fir Forest in the Southern Appalachian Mountains, North Carolina, U.S.A.." *Endangered Species Research*. V. 18: 17-25. SCImago Impact Index Factor: 1.64.
- 2012 J. T. Maxwell, P. T. Soulé, P. A. Knapp and J. T. Ortégren. "Drought-Busting Tropical Cyclones in the Southeastern Atlantic United States: 1950–2008." *Annals of the Association of American Geographers*. V. 102: 259-275. 2010 ISI Impact Factor: 1.89.
- 2011 P. A. Knapp, P.A. and P. T. Soulé. Reconstructing annual area burned in the Northern Rockies, USA: AD 1626-2008. *Geophysical Research Letters*. V. 38, L17402, doi: 10.1029/2011GL048119. 2011 ISI Impact Factor: 3.79.

- 2011 J. T. Maxwell and P. T. Soulé. "Drought and Other Driving Forces Behind Population Change in Six Rural Counties in the United States." *Southeastern Geographer*. V. 51: 133-148.
- 2011 J. T. Ortégren, P. A. Knapp, J. T. Maxwell, W. Tyminski, and P. T. Soulé. "Ocean-Atmosphere Influences on Low-Frequency Warm Season Drought Variability in the Gulf Coast and Southeastern U.S.A." *Journal of Applied Meteorology and Climatology*. V. 50: 1177-1186. 2010 ISI Impact Factor: 1.92.
- 2011 P. T. Soulé and P. A. Knapp. "Radial Growth and Increased Water-Use Efficiency for Ponderosa Pine Trees in Three Regions in the Western United States. *The Professional Geographer*. V. 63: 1-13. 2010 ISI Impact Factor: 1.52.
- 2011 P. T. Soulé. "Changing Climate, Atmospheric Composition, and Radial Tree Growth in a Spruce-Fir Ecosystem on Grandfather Mountain, North Carolina." *Natural Areas Journal*. V. 31: 65-74. 2010 ISI Impact Factor: 0.72.
- 2010 P. A. Knapp and P. T. Soulé. "Increasing water-use efficiency and age-specific growth responses of old-growth ponderosa pine trees in the Northern Rockies" *Global Change Biology*. V. 17: 631-641. Doi: 10.1111/j.1365-2486.2010.02209.x. 2010 ISI Impact Factor: 6.35.
- 2009 J. T. Maxwell and P. T. Soulé. "United States Drought of 2007: Historical Perspectives." *Climate Research*. V. 38: 95-104. 2009 ISI Impact Factor: 2.25.
- 2008 P. A. Knapp and P. T. Soulé "Use of Atmospheric CO₂-sensitive Trees May Influence Dendroclimatic Reconstructions." *Geophysical Research Letters*. Doi: 10.1029/2008GL035664. 2008 ISI Impact Factor: 2.96.
- 2008 P. T. Soulé and P. A. Knapp. "Does an August Singularity Exist in the Northern Rockies of the United States?" *Journal of Applied Meteorology and Climatology*. (DOI; 10.1175/2007Jamc1735.1 2008 ISI Impact Factor: 1.76.
- 2007 P. T. Soulé and P. A. Knapp. "Topoedaphic and Morphologic Complexity of Mortality and Foliar Damage Within Western Juniper Woodlands Following an Extreme Meteorological Event. *Journal of Biogeography*. V. 34: 1927-1937. 2007 ISI Impact Factor: 3.54.
- 2007 P. A. Knapp and P. T. Soulé. "Trends in mid-latitude cyclone frequency and occurrence during fire season in the Northern Rockies: 1900-2004." *Geophysical Research Letters*. 34, L20707, doi:10.1029/2007GL031216. 2007 ISI Impact Factor: 2.74.
- 2006 P. T. Soulé and P. A. Knapp. "Radial Growth Rate Increases in Naturally-occurring Ponderosa Pine Trees: a Late 20th Century CO₂ Fertilization Effect? *New Phytologist*. V. 171: 379- 390. 2006 ISI Impact Factor: 4.25.

- 2006 P. T. Soulé. "A Comparison of 30-yr Climatic Normals for the Southeastern United States." *Southeastern Geographer*. V. 45:16-24.
- 2005 P. A. Knapp and P. T. Soulé. "Impacts of an Early Season Freeze Event in the Interior Pacific Northwest (October 30th- November 3rd, 2002) on Western Juniper Woodlands." *Journal of Applied Meteorology* V. 44: 1152-1158.
- 2004 P. T. Soulé, P. A. Knapp, and H. D. Grissino-Mayer. "Human Agency, Environmental Drivers, and Western Juniper Establishment During the Late Holocene." *Ecological Applications*. V. 14: 96-112.
- 2004 P. A. Knapp, P. T. Soulé, and H. D. Grissino-Mayer. "Occurrence of Sustained Droughts in the Interior Pacific Northwest (AD 1733-1980) Inferred from Tree-Ring Data." *Journal of Climate*. V. 17: 140-150.
- 2003 P. T. Soulé, P. A. Knapp, and H. D. Grissino-Mayer. Comparative Rates of Western Juniper Afforestation in South-Central Oregon and the Role of Anthropogenic Disturbance. *The Professional Geographer*. V. 55: 43-55.
- 2002 P. A. Knapp, H. D. Grissino-Mayer, and P. T. Soulé. "Extreme Climate Signature Years and Climatic Boundaries in the Interior Pacific Northwest" *Quaternary Research*. V. 58: 226-233.
- 2001 P. A. Knapp, P. T. Soulé, and H. D. Grissino-Mayer. "Detecting Regional Effects of Increased Atmospheric CO₂ on Growth Rates of Western Juniper." *Global Change Biology*. V. 7: 903-917.
- 2001 P. A. Knapp, P. T. Soulé, and H. D. Grissino-Mayer. "Post-drought Growth Response of Western Juniper (*Juniperus occidentalis* var. *occidentalis*) in Central Oregon." *Geophysical Research Letters*. V. 28: 2657-2660.
- 2000 P. T. Soulé, and P. A. Knapp. "*Juniperus Occidentalis* (Western Juniper) Establishment History on Two Minimally Disturbed Research Natural Areas in Central Oregon." *Western North American Naturalist*. V. 60: 26-33.
- 2000 J. L. DeHart and P. T. Soulé, . "Does I = PAT Work in Local Places?" *The Professional Geographer*. V. 52: 1-10.
- 1999 P. T. Soulé and P. A. Knapp. "Western Juniper (*Juniperus occidentalis*) Expansion on Adjacent Disturbed and Near-relict Sites in Central Oregon." *Journal of Range Management*. V 52: 525-533.

- 1999 P. A. Knapp and P. T. Soulé. "Geographical Distribution of an 18th Century Heart Rot Outbreak in Western Juniper (*Juniperus occidentalis* ssp. *occidentalis* Hook.)." *Journal of Arid Environments*. V. 41: 247-256.
- 1999 J. R. Anzelmo and P. T. Soulé. "Relationships Between Mid-tropospheric Flow Indices and January Surface Precipitation in the Contiguous United States." *Southeastern Geographer*. V. 39: 75-85.
- 1998 P. T. Soulé and J. L. DeHart. "Assessing IPAT Using Production- and Consumption-based Measures of I." *Social Science Quarterly*. V. 79: 754-765.
- 1998 P. T. Soulé. "Some Spatial Aspects of Southeastern United States Climatology." *Journal of Geography*. V. 97: 142-150.
- 1998 P. T. Soulé. "The Comfort Day Index and its Use as a Measure of Temperature Stress in the Southeastern United States." *Southeastern Geographer*. V. 38: 142-149.
- 1998 P. A. Knapp and P. T. Soulé. "Recent *Juniperus occidentalis* (Western Juniper) Expansion on a Protected Site in Central Oregon." *Global Change Biology*. V. 4: 347-357.
- 1996 P. T. Soulé and P. A. Knapp. "The Influence of Vegetation Removal by Western Harvester Ants (*Pogonomyrmex owyheeii*) in a Relict Area of Sagebrush-steppe in Central Oregon." *The American Midland Naturalist*. V. 136 : 336-345.
- 1996 P. A. Knapp and P. T. Soulé. "Vegetation Change and the Role of CO₂ Enrichment on a Relict Site in Central Oregon: 1960-1994". *Annals of the Association of American Geographers*. V. 86: 387-411.
- 1996 P. T. Soulé and P. A. Knapp. "Pogonomyrmex owyheeii Nest Site Density and Size on a Minimally Impacted Site in Central Oregon." *Great Basin Naturalist*. V. 56: 162-166.
- 1995 J. C. Acker and P. T. Soulé. "Temporal Characteristics of Pennsylvania Snowfall: 1950-51 Through 1989-90." *Physical Geography*. V. 16: 188-204.
- 1995 P. T. Soulé and P. W. Suckling. "Variations in Heating and Cooling Degree Days in the South-eastern United States, 1960-1989." *International Journal of Climatology*. V. 15: 355-367.
- 1995 P. T. Soulé. "Drought Evolution Patterns in the U.S.A. During Great Plains-centered Droughts." *Great Plains Research*. V. 5: 115-135.
- 1995 P. T. Soulé, and Yin, Zhi-Yong. "Short- to Long-term Trends in Hydrologic Drought Conditions in the Contiguous United States." *Climate Research*. V. 5: 149-157.

- 1993 P. T. Soulé. "Hydrologic Drought in the Contiguous United States, 1900-1989: Spatial Patterns and Multiple Comparison of Means." *Geophysical Research Letters*. V. 20: 2367-2370.
- 1993 J. B. Bounds and P. T. Soulé. "Aspects of the Tornado Climatology of Alabama and the Florida Panhandle, 1962-1986." *Southeastern Geographer*. V. 33: 172-193.
- 1993 G. A. Wiggins and P. T. Soulé. "Environmental and Topographic Factors Affecting Male 'Middle-of-the-pack' Duathlon Performance." *Geographical Bulletin*. V. 35: 86-97.
- 1993 P. T. Soulé and G. A. Wiggins. "Effects of Race-day Weather and Topographic Severity on Performance in Duathlon Races: Inter-race Comparisons from the Pacific Northwest." *Northwest Science* V. 67: 262-272.
- 1993 P. T. Soulé. "Spatial Patterns and Teleconnections of Utah-based Droughts in the Contiguous United States." *Journal of Arid Environments*. V. 24: 217-229.
- 1992 P. T. Soulé. "Spatial Patterns of Frequency and Duration for Near-Normal Climatic Events in the Contiguous USA." *Climate Research*. V. 2: 81-89.
- 1992 P. T. Soulé, V. Meentemeyer, and W. Bland. "Temporal Trends of Mean and Extreme Wind Chill in Georgia, 1961-1990." *Southeastern Geographer*. V. 32: 97-112.
- 1992 P. T. Soulé. "Spatial Patterns of Average Southeastern-based Droughts in the Contiguous United States." *Physical Geography*. V. 13: 225-239.
- 1992 G. A. Wiggins and P. T. Soulé. "The Effects of Weather and Course Topography on Female Duathlon Performance." *Sport Place International*. V. 6: 15-28.
- 1992 P. T. Soulé. "Spatial Patterns of Drought Frequency and Duration in the Contiguous USA Based on Multiple Drought Event Definitions." *International Journal of Climatology*. V. 12: 11-24.
- 1992 P. T. Soulé. "Concurrent and Lagged Relationships Among Various Drought Indices in the United States." *MAUSAM: Indian Journal of Meteorology, Hydrology and Geophysics*. V. 43: 34-50.
- 1991 P. T. Soulé and T. B. Pugh. "A Comparison of Nocturnal Heat Island Observations at Tuscaloosa, Alabama and Athens, Georgia." *The Journal of the Alabama Academy of Science*. V. 63: 226-238.
- 1990 P. T. Soulé. "Spatial Patterns of Multiple Drought Types in the Contiguous United States: a Seasonal Comparison." *Climate Research*. V. 1: 12-21.

- 1990 P. T. Soulé and D. Shankman. "The Relationships of Palmer's Drought Indices to River Stage in Western Tennessee." *Physical Geography*. V. 11: 206-219.
- 1990 P. T. Soulé. "A Comparison of Regional Drought Patterns in the Contiguous United States Using Four Measures of Drought Severity." *The Geographical Bulletin*. V. 32: 72-80.
- 1990 P. T. Soulé. "Temporal Relationships Among Multiple Drought Types During an Average Drought." *Climatological Bulletin*. V. 24: 97-108.
- 1989 P. T. Soulé and V. Meentemeyer. "The Drought of 1988: Historical Rank and Recurrence Interval." *Southeastern Geographer*. V. 29: 17-25.
- 1988 P. T. Soulé, V. Meentemeyer, and M. L. Shelton. "Trends in July Relative Humidity and Vapor Pressure Within the Central Valley of California, 1920-1981." *Journal of Arid Environments*. V. 15: 109-116.
- 1988 P. T. Soulé. "The 1986 Growing Season Drought in the Southeastern United States: Spatial and Temporal Patterns." *Southeastern Geographer*. V. 28: 80-96.
- 1988 P. T. Soulé. "An Examination of Energy Consumption in the Residential Sector of the Contiguous United States." *The Geographical Bulletin*. V. 30: 9-20.
- 1987 P. T. Soulé and P. W. Suckling. "Recent Trends in July Mean Maximum Actual and Effective Temperatures for Georgia." *Georgia Journal of Science*. V. 45: 158-164.

GRANTS, CONTRACT, and CONSULTING WORK:

EXTERNAL:

P. T. Soulé, P. A. Knapp, and J. T. Maxwell (co-PIs), "A paleoclimatic examination of tropical cyclone-derived precipitation variability and atmospheric-oceanic controls inferred from longleaf pine in the coastal Carolinas, USA", Sponsored by National Science Foundation Geography and Spatial Sciences, 2017-2021, \$300,886 (external grant).

P. T. Soulé and S. van de Gevel (co PIs). Using Tree-Ring Samples to Determine *Terminus Post Quem* Dates for Archaeological Dam Sites in the Chattahoochee River. Southern Research, Historic Preservation Consultants, Inc., 2013. \$3806 (external contract).

P. T. Soulé and S. van de Gevel (co PIs). "Tree-Ring Analysis of Industrial Archaeological Sites in the Chattahoochee River." Southern Research, Historic Preservation Consultants, Inc., 2012-2013. \$2617 (external contract).

P. T. Soulé and P. A. Knapp (co PIs). "Collaborative Research: Radial Growth Responses among Naturally-Occurring Western U.S. Conifers under Changing Environmental Conditions." National Science Foundation, 2009-2013, \$342,955 (ASU share: \$182,953) (external grant).

G. L. Walker and P. T. Soulé. "Characterization of Ancient Red Cedar Communities in the Obed Wild and Scenic River Gorge." National Park Service, 2007, \$24,000 (external grant).

P. T. Soulé. "An examination of the age structure and growth patterns of high elevation conifers on Grandfather Mountain, NC." Grandfather Mountain, Inc., 2006-2007, \$6,000 (external grant).

P. T. Soulé and P. A. Knapp (co PIs). "Anomalous 20th Century Ponderosa Pine Growth and Potential CO₂ Fertilization in Naturally-Occurring Stands in the Interior West, USA." United States Department of Agriculture, National Research Initiative Competitive Grants Program, 2005-2007, \$150,000 (external grant).

P. A. Knapp, P. T. Soulé, and H. D. Grissino-Mayer (co-PIs). "Historic Expansion of Western Juniper on Near-Relict Sites: a Dendroecological Approach." National Science Foundation, 1998-2001, \$190,376 (external grant).

P. T. Soulé and P. A. Knapp (co PIs). "Western Juniper (*Juniperus occidentalis*) Expansion on Minimally Impacted Sites in Central Oregon: Periods of Establishment and Probable Cause(s)." Challenge Cost Share Program, U.S. Bureau of Land Management, \$30,764, 1997-1998 (external grant).

N. G. Lineback, PI. "Global Change in Local Places." NASA, \$175,000, 1996, 1997, 1998. (my involvement was as a Senior Researcher) (external grant contract work).

L. Garo, PI. "North Carolina Greenhouse Gas Inventory for 1990." State of North Carolina-EPA, \$50,000, 1996. (my involvement was as a Senior Researcher) (external grant contract work).

V. Meentemeyer and P. T. Soulé. Analysis of Current Weather Data Collection at End-Use Monitored Sites and Recommendations for Future Monitoring Approaches. Atlanta, GA: Southern Company Services, Inc., 1995, \$20,000 (consulting).

V. Meentemeyer and P. T. Soulé. 1: "Weather Data and Analyses for Summer System Peak Forecast Scenarios With an Emphasis on Cool Summers", and 2: "Climate and Weather in the Grady EMC Service Area." Tucker, GA: Oglethorpe Power Corporation, 1993, \$8,000 (consulting).

V. Meentemeyer and P. T. Soulé. "Weather Data for Winter System Peak Forecast Scenarios and Intermediate Range Demand Forecasts." Oglethorpe Power Corporation, 1992, \$10,000 (consulting).

V. Meentemeyer and P. T. Soulé. "Weather Function Modeling Methodology: A Review," Oglethorpe Power Corporation, 1990, \$10,000 (consulting).

V. Meentemeyer and P. T. Soulé. "Precipitation Data for Improved Load Forecasting," Oglethorpe Power Corporation, 1990, \$10,000 (consulting).

V. Meentemeyer and P. T. Soulé. "Load Forecasting: Weather Data and Climatic Normals," Oglethorpe Power Corporation, 1989, \$10,000 (consulting).

INTERNAL:

P. T. Soulé. "A dendroclimatic reconstruction of atmospheric river precipitation in southern California." ASU, University Research Council, 2020-2021, \$4732 (internal grant).

P. T. Soulé. "Tree-growth responses in semiarid western juniper woodlands following two decades of increasing aridity." ASU, College of Arts and Sciences SAFE grant, 2018, \$900 (internal grant).

P. T. Soulé. "Tree-growth responses in semiarid western juniper woodlands following two decades of increasing aridity: A longitudinal study in central Oregon." University Research Council, ASU, 2017-2018, \$2101 (internal grant).

P. T. Soulé. Graduate Research Assistantship Mentoring grant (GRAM). 2018 (Academic year 2018-2019). \$12,000 (internal grant).

P. T. Soulé. Graduate Research Assistantship Mentoring grant (GRAM). 2017 (Academic year 2017-2018). \$12,000 (internal grant).

P. T. Soulé and Rich Crepeau. IRAP Grant to Review and Improve Assessment in the Department of Geography and Planning, 2017, \$1000 (internal grant).

P. T. Soulé. Faculty Reassigned Time, Office of Research, ASU, 2016, \$3,400 (internal course buyout).

P. T. Soulé. "APPon Online Course Materials Development Program for Introduction to Physical Geography." Academic Affairs, ASU, 2015, \$3500 (internal contract).

P. T. Soulé. "Are the Effects of Changing Arctic Sea Ice Extent and Temperature Recorded in Tree-ring Records of High-elevation Conifers?" University Research Council, ASU, 2014, \$4564 (internal grant).

P. T. Soulé. "Growth Responses of Ponderosa Pine to Warming Climatic Conditions along Elevational Gradients in the Northern Rockies, USA." University Research Council, ASU, 2013. \$3000 (internal grant).

P. T. Soule and L. B. Perry "Shared Learning Outcomes Development Grants for Faculty Teams: Global Climate Change." General Education, ASU, Summer 2012. \$250 (internal grant).

P. T. Soulé. "Comparing Infected and Non-infected Ponderosa Pine Trees by the Mountain Pine Beetle in Montana". University Research Council, ASU, 2011. \$4996 (internal grant).

P. T. Soulé, L. B. Perry and G. L. Katz. "Global Environmental Change." 2008 Summer Faculty Grants for General Education Development, Appalachian State University, 2008, \$2000 (internal grant).

P. T. Soulé. "Interspecific Competition among Naturally-Occurring Western U.S. Conifers under Elevated Atmospheric CO₂ Conditions." University Research Council, Appalachian State University, 2007, \$4590 (internal grant).

P. T. Soulé. "A Climatologically Perfect Storm and the Large-Scale Mortality of Western Juniper Woodlands in the Interior Pacific Northwest." University Research Council Competitive Grants, Summer 2004, Appalachian State University, \$4,459 (internal grant).

P. T. Soulé. "Detecting a Carbon Dioxide Growth Signal in Ponderosa Pine Tree-ring Chronologies from Washington to Northern California." University Research Council Competitive Grants, Summer 2001, Appalachian State University, \$1,000 (internal grant).

P. T. Soulé. "Incorporating Computer Animations via CD-rom Into Two Courses: Introduction to Physical Geography and Weather and Climate." Faculty and Academic Development Grant, Hubbard Center, Appalachian State University, 2001, \$305 (internal grant).

P. T. Soulé. "Processing Samples extracted from Western Juniper in Support of a Project Assessing Linkages Between Increases in Atmospheric Carbon Dioxide and Growth Rates of this Tree Species." University Research Council Competitive Grants: Summer 1999, Appalachian State University, 1999, \$337 (internal grant).

P. T. Soulé. "Assessing Historic Expansion of Western Juniper on Minimally Impacted Sites: a Dendroecological Approach." University Research Council Competitive Grant, Appalachian State University, 1996-1997, \$1035 (internal grant).

P. T. Soulé. Appalachian State University, Hubbard Center Faculty Development Fund for "Incorporating Recent Meteorological Technology in the Classroom," \$200, 1996 (internal grant).

P. T. Soulé. Appalachian State University, University Research Council Summer Research Grant for "Long-term Monitoring of Central Oregon Rangeland Vegetation: CO₂ Enrichment and Vegetation Change," \$1,000, 1995 (internal grant).

P. T. Soulé. Appalachian State University, Meteorological Monitoring Project, August 1993-January 1995, \$3,500/year (internal contract work).

P. T. Soulé. University of Alabama Research Grants Committee for "Intensity, Spatial Coverage, and Temporal Development of Average Droughts in the Contiguous United States," 1990, \$2,700 (internal grant).

OTHER REFEREED PUBLICATIONS:

- 1996 P. T. Soulé. "North Carolina's Climate." Invited paper for *Snapshots of the Carolinas: Landscapes and Cultures*. G. Gordon Bennett, ed. Association of American Geographers, Washington, D.C., p. 65-68.
- 1991 P. T. Soulé, V. Meentemeyer, and W. Bland. "Power Generation Industries and Climatic Data: Spatial and Temporal Considerations." *Preprints: The American Meteorological Societies' 7th Conference on Applied Climatology*. Salt Lake City, UT: pp. 47-50.
- 1989 V. Meentemeyer and P. T. Soulé,. "The Spatio-Temporal Evolution of the Average Drought Affecting Georgia." *Proceedings of the 1989 Georgia Water Resources Conference*. Athens, GA: 5pp.
- 1989 P. T. Soulé and V. Meentemeyer. "A Comparison of Regional Drought Patterns in the Contiguous United States Using Four Measures of Drought Severity." *Preprints: The American Meteorological Societies' 6th Conference on Applied Climatology*. pp. 84-87.

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- 2013 P. T. Soulé and S. van de Gevel. *Final Report: Using Tree-Ring Samples to Determine Terminus Post Quem Dates for Archaeological Dam Sites in the Chattahoochee River*. Southern Research, Historic Preservation Consultants, Inc..
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- 2010 G. L. Walker, B. K. Nepal, P. T. Soulé. *Characterization of Ancient Red Cedars Communities in the Obed Wild and Scenic River Gorge*. U.S. Department of the Interior, National Park Service, Obed Wild and Scenic River Gorge National Park, Wartburg, TN.
- 2009 P. T. Soulé. *Report to the National Park Service, Obed Wild and Scenic River Area, on Dendroecological Work Conducted for the Grant: "Characterization of Ancient Red Cedar Communities in the Obed Wild and Scenic River Gorge."* U.S. Department of the Interior, National Park Service, Obed Wild and Scenic River Gorge National Park, Wartburg, TN.
- 2008 P. T. Soulé, R. E. Emanuel, H. S. Neufeld, L. B. Perry, J. P. Sherman, and B. F. Taubman. *Report from the Appalachian State University Global Climate Change Committee to the North Carolina General Assembly*.

- 2006 P. T. Soulé. Study Site on the Salmon River in Idaho. Cover Photograph for *Genes to Products: Agricultural Plant, Microbe, and Biobased Product Research Abstract Volume*. United States Department of Agriculture.
- 1996 M. W. Mayfield, P. T. Soulé, T. C. Rhyne, A. Rex, and L. A. Boyer-Garo. *The North Carolina Greenhouse Gas Emissions Inventory for 1990*. Boone, N.C.: Department of Geography and Planning.
- 1994 P. T. Soulé, ed. *Geographic Perspectives of North Carolina's Climate*. Boone, N.C.: Geographic Information Systems Laboratory, Department of Geography and Planning, Appalachian State University (map sheet).
- 1995 V. Meentemeyer and P. T. Soulé. Analysis of Current Weather Data Collection at End-Use Monitored Sites and Recommendations for Future Monitoring Approaches. Atlanta, GA: Southern Company Services, Inc..
- 1993 V. Meentemeyer and P. T. Soulé. Weather Data and Analyses for Summer System Peak Forecast Scenarios With an Emphasis on Cool Summers. Tucker, GA: Oglethorpe Power Corporation.
- 1993 V. Meentemeyer and P. T. Soulé. "Climate and Weather in the Grady EMC Service Area". Tucker, GA: Oglethorpe Power Corporation.
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- 1990 V. Meentemeyer and P. T. Soulé. Weather Function Modeling Methodology: A Review. Tucker, GA: Oglethorpe Power Corporation.
- 1990 V. Meentemeyer and P. T. Soulé. Precipitation Data for Improved Load Forecasting. Tucker, GA: Oglethorpe Power Corporation.
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PRESENTATIONS AND PUBLISHED ABSTRACTS/PROCEEDINGS (presenter underlined if not Soulé):

“An examination of tropical cyclone precipitation regimes along coastal North Carolina, USA during 1750-2015 using a longleaf pine tree-ring record.” Presented at the American Association of Geographers Meeting, Virtual, April 2021. (with P.A. Knapp, J. T. Maxwell, J. T. Ortegren, and T. J. Mitchell).

“Increasing tropical cyclone precipitation amounts over the last 300+ years.” Presented at the American Association of Geographers Meeting, Virtual, April 2021. (with J. T. Maxwell, J. C. Bregy, S. M. Robeson, P. A. Knapp, and V. Trouet).

“Increasing tropical cyclone precipitation extremes along the southeast Atlantic coast over the last 350 years.” Presented at the American Geophysical Union Meeting, San Francisco, CA, December 2019. (with J. T. Maxwell, J. Ortegren, J. Bregy, P. A. Knapp).

“Re-evaluating the long-term effects of rising atmospheric CO₂ on radial growth rates of western juniper (*Juniperus Occidentalis* Hook): A longitudinal study from central Oregon, USA.” Presented at the annual meeting of the Association of Pacific Coast Geographers, Flagstaff, AZ, October, 2019 (with P. A. Knapp).

“Increasing wildfire activity in the western United States: Spatial and temporal linkages to declining Arctic sea-ice extent.” Presented at the annual meeting of the Association of Pacific Coast Geographers, Flagstaff, AZ, October, 2019 (with P. A. Knapp).

“A comparison of the climate response of North Carolina longleaf pine (*Pinus palustris* Mill.) trees among standardized measures of early-, late- and totalwood radial growth.” Presented at the annual meeting of the American Association of Geographers, Washington, DC, April 2019. (with J. T. Maxwell and P. A. Knapp).

“North Atlantic tropical cyclone precipitation changes post volcanic eruptions: Evidence from North Carolina longleaf pine (*Pinus palustris* Mill.): AD 1770-2000.” Presented at the annual meeting of the American Association of Geographers, Washington, DC, April 2019. (with P. A. Knapp, J. T. Maxwell, J. Ortegren, and J. Bregy).

“Climate-growth responses from *Pinus ponderosa* trees using multiple measures of annual radial growth.” Presented at the annual meeting of the Southeastern Division, American Association of Geographers, Johnson City, TN, November 2018. (with J. T. Maxwell and P. A. Knapp).

“An update to a multi-century reconstruction of tropical cyclone precipitation in the North Carolina coastal region using the tree-ring record of longleaf pine.” Presented at the annual meeting of the American Association of Geographers, New Orleans, April 2018 (with P. A. Knapp, J. T. Maxwell, and J. Bregy).

“North Atlantic tropical cyclone precipitation decreases post volcanic eruptions: Evidence from North Carolina longleaf pine (*Pinus palustris* Mill.): AD 1790-2017. Presented at the annual meeting of the Southeastern Division, American Association of Geographers, Johnson City, TN, November 2018. (with P. A. Knapp and J. T. Maxwell).

“A dendroecological investigation of red-cockaded woodpecker (*Leuconotopicus borealis*) and longleaf pine (*Pinus palustris*) cavity trees. Presented at the annual meeting of the Southeastern Division, American Association of Geographers, Johnson City, TN, November 2018. (with A. L. Kaiser, S. van de Gevel, A. Bhuta, P. A. Knapp, and J. Walters.)

“Using high-elevation, mid-latitude conifers to reconstruct Arctic sea-ice extent fluctuations.” Presented at the annual meeting of the American Association of Geographers, New Orleans, April 2018 (with P. A. Knapp).

“Reconstructing summer upper-level flow in the northern Rocky Mountains using an alpine larch (*Larix lyallii*) tree-ring chronology.” Presented at the annual meeting of the American Association of Geographers, New Orleans, April 2018 (with E. E. Montpellier, P. A. Knapp, and L. B. Perry).

“Declining Arctic Sea-ice Extent and Increasing Wildfire Activity in the Western United States: Spatio-Temporal Linkages.” Presented at the annual meeting of the Southeastern Division, American Association of Geographers, Starkville, November 2017 (with P. A. Knapp).

“Changes in the Mechanisms behind Rapid Drought Cessation in the Southeastern U.S.” Presented at the American Geophysical Union Annual Meeting, New Orleans, December 2017. (with J.T. Maxwell, P. A. Knapp, J. T. Ortegren, and D. L. Ficklin)

“Growth Responses of Ponderosa Pine to Warming Climatic Conditions along Elevational Gradients in the Northern Rockies, USA.” Presented at the Annual Meeting of the American Association of Geographers, Boston, April 2017 (with P. A. Knapp and J. T. Maxwell).

“Is Arctic sea-ice extent affecting western Wildfire Activity?” Presented at the Annual Meeting of the American Association of Geographers, Boston, April 2017 (with P. A. Knapp).

“A 235-year record of precipitation from tropical cyclones in eastern North Carolina derived from longleaf pine (*Pinus palustris* Mill.).” Presented at the Southeastern Division, Association of American Geographers, Columbia, SC., November 2016 (with P. A. Knapp and J. T. Maxwell).

“Linkages between Arctic sea-ice extent, summer surface temperatures, and radial growth of alpine-larch trees in the northern Rockies.” Presented at the Southeastern Division, Association of American Geographers, Columbia, SC, November 2016, (with P. A. Knapp and S. Shelly).

“Understanding spatial parameters for study sites in tree-ring science: divergent growth rates of alpine larch trees in response to microenvironmental variability.” Presented at the State of North Carolina Research and Creativity Symposium, North Carolina Central University, November 2016 (with E. Montpellier, P. A. Knapp, and S. Shelly).

“Tree-rings, climate and geography: The influence of local landscape conditions on climate/growth responses of adjacent alpine larch stands in Montana, USA.” Presented at the Annual Celebration of Student Research, Appalachian State University, May 2016, (with E. Montpellier, P. A. Knapp, and S. Shelly).

“A bicentennial reconstruction of tropical cyclone rainfall variability derived from longleaf pine (*Pinus palustris* Mill.).” Presented at the Association of American Geographers, San Francisco, April 2016, (with P. A. Knapp and J. T. Maxwell).

“A Comparison of Climate-growth Responses from Old Growth Ponderosa pine Trees Using Various Measures of Annual Radial Growth.” Presented at the Annual Meeting of the Association of American Geographers, Chicago, IL, April 2015 (with P. A. Knapp and J. T. Maxwell).

“Dendroclimatic Reconstructions of Tropical Cyclone Precipitation in North Carolina.” Presented at the Annual Meeting of the Association of American Geographers, Chicago, IL, April 2015 (with P. A. Knapp and J. T. Maxwell).

“Sequicentennial Trends in Intrinsic Water-use Efficiency: are Co-Occurring Ponderosa Pine Outperforming Douglas Fir in a CO₂-Rich World?” Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, Roanoke, VA, November 2013 (with P. A. Knapp).

“Tropical Cyclones and Drought Amelioration in the Gulf and Southeastern Coastal United States.” Presented at the Annual Meeting of the Association of American Geographers, Los Angeles, CA, April 2013 (with J.T. Maxwell, J. T. Ortegren, and P. A. Knapp)

“Growth Rate Divergence between Mountain Pine Beetle-Infested and Healthy Ponderosa Pine in Montana Prior to Outbreak.” Presented at the Annual Meeting of the Association of American Geographers, Los Angeles, CA, April 2013 (with P. A. Knapp and J.T. Maxwell)

“Radial Growth Rates of Two Co-occurring Coniferous Trees in the Northern Rockies during the Past Century.” Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, Asheville, NC, November 2012 (with P. A. Knapp).

“Mountain Pine Beetle Selectivity in Old-Growth Ponderosa Pine Forests: A Dendroecological Analysis between Live and Dead Trees in Outbreak Areas.” Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, Asheville, NC, November 2012 (with P. A. Knapp, J. T. Maxwell).

“Long-term disturbance histories of endangered mountain forest ecosystems in the eastern United States.” Presented at Tree Rings in Archaeology, Climatology, and Ecology (TRACE), Potsdam & Eberswalde, Germany, May 2012 (with S. L. van de Gevel, M. Spond).

“Radial Growth Comparisons of co-Occurring Healthy versus Mountain Pine Beetle-Killed Ponderosa Pine Trees in Montana.” Presented at the Annual Meeting of the Association of American Geographers, New York, New York, February 2012 (with P. A. Knapp).

“Estimating Annual Area Burned in the Northern Rockies (AD 1626-2008) Using Alpine Larch Tree-Ring Data.” Presented at the Annual Meeting of the Association of American Geographers, New York, New York, February 2012 (with P. A. Knapp).

“Low-Frequency Ocean-Atmosphere Drivers of Warm-Season Drought in the Southeastern U.S.A.” Presented at the Annual Meeting of the Association of American Geographers, New York, New York, February 2012 (with J. T. Ortegren, P. A. Knapp, J. T. Maxwell, W. P. Tyminski).

“Radial Growth Responses among Naturally-Occurring Western U.S. Conifers under Changing Environmental Conditions: Responses From Western Montana Forests.” Presented at the Seventh Montana Plant Conservation Conference, Helena, Montana, February 2012 (with S. Shelly and P. A. Knapp).

“A comparison of the climatic drivers for radial growth between co-occurring ponderosa pine and Douglas-fir trees in the northern Rockies.” Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, Savannah, GA, November 2011 (with P. A. Knapp).

“Differential Growth Responses for Ponderosa Pine and Douglas Fir Trees Under Changing Environmental Conditions.” Presented at the Annual Meeting of the Association of American Geographers, Washington, DC, April 2010 (with P. A. Knapp).

“The Roles of Climate and Stand Dynamics in a Post-Disturbance Red Spruce-Fraser Fir Forest at Roan Mountain, Cherokee, and Pisgah National Forests. Presented at the Annual Meeting of the Association of American Geographers, Washington, DC, April 2010 (with P. B. White, S. L. van de Gevel).

“Homogenous Summer Drought Regions in the Contiguous U.S.A. and Their Relative Susceptibility to Multi-Year Sustained Drought Events: A Synoptic “Safety Net” Protecting the Southeast and the eastern Gulf Coast?” Presented at the Annual Meeting of the Association of American Geographers, Washington, DC, April 2010 (with J. T. Ortegren, P. A. Knapp, J. T. Maxwell).

“Characterization of Ancient Red Cedars Communities in the Obed Wild and Scenic River Gorge.” Presented at the Association of Southeastern Biologists Conference, Asheville, NC, April 2010. (with G. L. Walker and B. Krishna).

“Drought-Busting Tropical Cyclones in the Southeastern Atlantic United States: 1950-2008.” Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, Knoxville, TN, November 2009 (with J. Maxwell, P. Knapp, J. Oretgren, and M. Sufficool).

“Homogenous Summer Drought Regions in the Contiguous U.S.A. and their Relative Susceptibility to Multi-year Sustained Drought Events.” Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, Knoxville, TN, November 2009 (with J. Oretgren, P. Knapp, and J. Maxwell).

“How Does the United States Drought of 2007 Compare Historically?” Presented at the Annual Meeting of the Association of American Geographers, Las Vegas, NV, March 2009. (with J. Maxwell).

“Changing Climate and Radial Tree Growth in a High Elevation Spruce-Fir Ecosystem on Grandfather Mountain, North Carolina. Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, Greensboro, NC, November 2008.

“Can Rising Atmospheric CO₂ Conditions Influence Dendroclimatic Reconstructions?” Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, Greensboro, NC, November 2008 (with P. A. Knapp).

“Identification of a Maximum Temperature ‘August Singularity’ in Montana and Idaho.” Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, Charleston, SC, November 2007 (with P. A. Knapp).

“Changing Mid-Latitude Wave Cyclone Climatology and Fire Activity in the Northern Rockies.” Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, Charleston, SC, November 2007 (with P. A. Knapp).

“Topoedaphic and Morphologic Complexity of Mortality and Foliar Damage within Western Juniper Woodlands Related to an Extreme Early-season Freeze Event.” Presented at the Annual Meeting of Association of Pacific Coast Geographers, Eugene, OR, September 2006 (with P. A. Knapp).

“Trends in Midlatitude Cyclonic Occurrence and Frequency during Fire Season in the Northern Rockies: 1900-2004. Presented at the Annual Meeting of the Pacific Coast Geographers, Eugene, OR, September 2006 (with P. A. Knapp).

“Anomalous 20th Century Ponderosa Pine Growth and Potential CO₂ Fertilization in Naturally-Occurring Stands in the Interior West, USA.” Presented at United States Department of Agriculture’s, National Research Initiative in Agricultural Plants and Environmental Adaptation Program Meeting, Warrenton, VA, February 2006 (with P. A. Knapp).

“Are Growth Rates of Ponderosa Pine in the Pacific Northwest Related to Atmospheric Carbon Dioxide?” Presented at the Annual Meeting of the Southeastern Division, Association of American Geographers, West Palm Beach, FL, November 2005 (with P. A. Knapp).

“Relationships Between Radial Growth Rate Enhancement of Ponderosa Pine and Increasing Levels of Carbon Dioxide.” Presented at the Annual Meeting of The Association of Pacific Coast Geographers, Phoenix, AZ, October 2005 (with P. A. Knapp).

“Record Cold, Severe Drought, and Changes to Western Juniper Woodland Dynamics. Presented at the Annual Meeting of The Association of Pacific Coast Geographers, Phoenix, AZ, October 2005 (with P. A. Knapp).

“Impacts of an Early Season Freeze Event in the Interior Pacific Northwest (October 30th-November 3rd, 2002) on Western Juniper Woodlands” Presented at the 59th Annual Meeting of the Southeastern Division, Association of American Geographers, Biloxi, MS, November 2004 (with P. A. Knapp).

“Changing Atmospheric Composition and Radial Growth Rate Enhancement of Ponderosa Pine” Presented at the 58th Annual Meeting of the Southeastern Division, Association of American Geographers, Charlotte, NC, November 2003 (with P. A. Knapp).

"Spatial Occurrence of Sustained Droughts and a Drought Zone in the Interior Pacific Northwest" Presented at the 57th Annual Meeting of the Southeastern Division, Association of American Geographers, Richmond, VA, November 2002 (with P. A. Knapp and H. D. Grissino-Mayer).

“The Role of Disturbance in the Establishment History of Western Juniper.” Presented at the 56th Annual Meeting of the Southeastern Division, Association of American Geographers, Lexington, KY, November 2001 (with P. A. Knapp and H. D. Grissino-Mayer).

“Extreme Climatic Signature Years and Climatic Boundaries in the Interior Pacific Northwest.” Presented at the 56th Annual Meeting of the Southeastern Division, Association of American Geographers, Lexington, KY, November 2001 (with P. A. Knapp and H. D. Grissino-Mayer).

“A 775-year Reconstruction of Winter-Spring Precipitation for Central Oregon from Western Juniper (*Juniperus occidentalis* Hook.) Tree Rings.” Presented at the International Conference on Tree Rings and People, Davos, Switzerland, September 2001 (with H. D. Grissino-Mayer and P. A. Knapp).

“Comparative Rates of Western Juniper Afforestation and the Role of Anthropogenic Disturbance.” Presented at the 97th Annual Meeting of the Association of American Geographers, New York, March 2001 (with P. A. Knapp and H. D. Grissino-Mayer).

“Growth Responses of Western Juniper in Central Oregon.” Presented at the 55th Annual Meeting of the Southeastern Division, Association of American Geographers, Chapel Hill, November 2000 (with P. A. Knapp and H. D. Grissino-Mayer).

“Establishment and Expansion of Western Juniper on Research Natural Areas in Oregon.” Presented at the 96th Annual Meeting of the Association of American Geographers, Pittsburgh, April 2000 (with P. A. Knapp and H. D. Grissino-Mayer).

“Western Juniper Establishment History on Minimally Disturbed Locations.” Presented at the 54th Annual Meeting of the Southeastern Division, Association of American Geographers, Tampa, November 1999 (with Paul A. Knapp).

"Driving Forces Behind Agricultural Greenhouse Gas Emissions in North Carolina." Presented at the 95th Annual Meeting of the Association of American Geographers, Honolulu, March 1999 (with P. T. Dellinger).

"20th Century Western Juniper Growth Rates and Atmospheric CO₂ Enrichment." Presented at the 95th Annual Meeting of the Association of American Geographers, Honolulu, March 1999 (with P. A. Knapp).

"Assessing IPAT Using Production- and Consumption-based Measures of I." Presented at the 94th Annual Meeting of the Association of American Geographers, Boston, March 1998 (with J. L. DeHart).

"Does I = PAT Work in Local Places?" Presented at the 93rd Annual Meeting of the Association of American Geographers, Ft. Worth, April 1997 (with J. L. DeHart).

"Assessing I = PAT at the Local Scale." Presented at the 1997 American Association for the Advancement of Science Meeting, Seattle, February 1997 (with J. L. DeHart).

"Western Juniper Expansion on Three Sites with Different Land-Use Histories." Presented at the 51st Annual Meeting of the Southeastern Division, Association of American Geographers, Athens, Georgia, November 1996 (with P. A. Knapp).

"Western Juniper Expansion Under Different Disturbance Regimes." Presented at the 92nd Annual Meeting of the Association of American Geographers, Charlotte, April 1996 (with P. A. Knapp).

"Vegetation Change on a Central Oregon Semirelict Site: 1972-1995." Presented at the 92nd Annual Meeting of the Association of American Geographers, Charlotte, April 1996 (with P. A. Knapp).

"Grazing Influences of Western Harvester Ants (*Pogonomyrmex owyhee*) at Two Semirelict Sites in Central Oregon." Presented at the 50th Annual Meeting of the Southeastern Division, Association of American Geographers, Knoxville, November 1995 (with P. A. Knapp).

"Grazing Influences of Western Harvester Ants in Central Oregon." Presented at the 91st Annual Meeting of the Association of American Geographers, Chicago, March 1995 (with P. A. Knapp).

"The Effects of CO₂ Enrichment on Central Oregon Rangeland Vegetation." Presented at the 91st Annual Meeting of the Association of American Geographers, Chicago, March 1995 (with P. A. Knapp).

"Normal Degree Days in the Southeastern United States." Presented at the 49th Annual Meeting of the Southeastern Division, Assoc. of American Geographers, Virginia Beach, VA, November 1994.

"Freeze-Thaw Cycles and Freezing Degree Days in the Southeastern USA." Presented at the 90th Annual Meeting of the Association of American Geographers, San Francisco, CA, April 1994.

"Hydrologic Drought Conditions in the Contiguous United States, 1900-1989: Spatial Patterns and Multiple Comparison of Means." Presented at the 48th Annual Meeting of the Southeastern Division, Association of American Geographers, Greensboro, NC, November 1993.

"Degree-Day Variability in the Southeastern United States." Presented at the 89th Annual Meeting of the Association of American Geographers, Atlanta, GA, April 1993.

"Wind Chill Extremes in Georgia." Presented at the 47th Annual Meeting of the Southeastern Division, Association of American Geographers, Louisville, KY, November 1992. (with V. Meentemeyer and W. Bland).

"Patterns of Average Drought in the Central and Western USA." Presented at the 88th Annual Meeting of the Association of American Geographers, San Diego, CA, April, 1992.

"Frequency and Duration of Normal Weather." Presented at the Annual Meeting of the Alabama Academy of Science, Tuscaloosa, AL, April 1992.

"Duration and Frequency of Drought Events." Presented at the 46th Meeting of the Southeastern Division, Association of American Geographers, Asheville, NC, November 1991.

"Power Generation Industries and Climatic Data: Spatial and Temporal Considerations." Presented at the American Meteorological Societies' 7th Conference on Applied Climatology. Salt Lake City, UT: September, 1991. (with V. Meentemeyer and W. Bland).

"Spatial Patterns of Drought Frequency and Duration in the Contiguous United States." Presented at the Annual Meeting of the Alabama Academy of Science, Jacksonville, AL, March 1991.

"Benign Climatic Events in the Contiguous United States." Presented at the 87th Annual Meeting of the Association of American Geographers, Miami, FL, April 1991.

"The Needs and Uses of Climatic Data by Power Generation Industries." Presented at the 13th Annual Applied Geography Conference, Charlotte, NC, October 1990. (with V. Meentemeyer and W. Bland).

"Temporal Relationships Among Multiple Drought Types During an Average Drought." Presented at the 86th Annual Meeting of the Association of American Geographers, Toronto, Canada, April 1990.

"Moisture Indices and Surface Hydrology in Western Tennessee." Presented at the 45th Meeting of the Southeastern Division, Association of American Geographers, Columbia, SC, November 1990. (with D. Shankman).

"Spatial Patterns of Drought Severity During an Average Drought." Presented at the 44th Meeting of the Southeastern Division, Association of American Geographers, Charleston, WV, November 1989.

"The Spatio-Temporal Evolution of the Average Drought Affecting Georgia." Presented at the 1989 Georgia Water Resources Conference. Athens, GA: May, 1989. (with V. Meentemeyer).

"The Geographic Development of Major Droughts Affecting Georgia." Presented at the 66th Annual Meeting of the Georgia Academy of Science, Valdosta, Ga, April 1989. (with V. Meentemeyer).

"Concurrent and Lagged Relationships Among Multiple Drought Types." Presented at the 85th Annual Meeting of the Association of American Geographers, Baltimore, MD, March, 1989.

"A Comparison of Regional Drought Patterns in the Contiguous United States Using Four Measures of Drought Severity." Presented at the American Meteorological Societies' Sixth Conference on Applied Climatology, Charleston, SC, March, 1989. (with V. Meentemeyer).

"The Drought of 1988: Historical Rank and Recurrence Interval." Presented at the 43rd Annual Meeting of the Southeastern Division, Association of American Geographers, Mobile, AL, November, 1988. (with V. Meentemeyer).

"Spatial and Temporal Patterns of Multiple Drought Types in the Contiguous United States." Presented at the 84th Annual Meeting of the Association of American Geographers, Phoenix, AZ, April, 1988.

"Spatial and Temporal Patterns of Drought in The Southeastern United States During the 1986 Growing Season." Presented at the 42nd Annual Meeting of the Southeastern Division, Association of American Geographers, Charlotte, NC, November, 1987.

"Household Energy Consumption in the Residential Sector of the United States." Presented at the 64th Annual Meeting of the Georgia Academy of Science, Albany, GA, April 1987.

"Some Observations of the Urban Heat Island in Athens, Georgia." Presented at the 2nd Annual University of Georgia/University of Florida Geography Conference, Gainesville, FL, February 1987.

"Trends in July Mean Maximum Effective and Actual Temperatures in Georgia, 1956-1981." Presented at the 41st Annual Meeting of the Southeastern Division, Association of American Geographers, Lexington, KY, November 1986.

"Trends in Relative Humidity and Vapor Pressure Within the Central Valley of California, 1920-1981." Presented at the 63rd Annual Meeting of The Georgia Academy of Science, Milledgeville, GA, May 1986.

"An Application of Selected Human Comfort Indices in the Southeastern United States." Presented at the 1st Annual University of Georgia/University of Florida Geography Conference, Athens, GA, March 1986.

"Topoclimatic Influences on Heating Degree Days in Complex Terrain." Presented at the 80th Annual Meeting of the Association of American Geographers, Washington, D.C., April 1984.

COLLOQUIA AND INVITED TALKS (presenter underlined if not Soulé):

"Reconstructing Tropical Cyclone Precipitation in North Carolina from tree-rings of Longleaf Pine." Wake Forest University, Department of Biology, November 2017.

“Student Benefits of Getting Involved in Faculty Research Projects” Cone Hall, Appalachian State University, Faculty-in-Residence Programs. April 2014.

“Why Fieldwork?” Cannon Hall, Appalachian State University, Faculty-in-Residence Programs. March 2014.

“Climate Change: What do the Trees Tell Us?” Frank Hall, Appalachian State University, Faculty-in-Residence Programs, February 2013.

“Tree-Ring Research.” Cone Hall, Appalachian State University, Faculty-in-Residence Programs, December 2012.

“Why Fieldwork: Benefits of Getting Involved in Faculty Research Projects.” Hoey Hall, Appalachian State University, Faculty-in-Residence Programs. October 2012.

“Collaborative Research: Radial Growth Responses among Naturally-Occurring Western U.S. Conifers under Changing Environmental Conditions.” United States Forest Service, Region 1, Missoula, Montana. August 2011 (with P. A. Knapp).

“Using a tree-ring chronology developed from alpine larch to reconstruct annual area burned in the Northern Rockies from AD 1626–2008.” United States Forest Service, Region 1, Missoula, Montana. August 2011 (with P. A. Knapp).

“Climate Change, Acid Rain, and Tree Growth on Grandfather Mountain, North Carolina.” University of North Carolina Greensboro, Department of Geography Colloquium Series. March 2009.

“Changing Climate and Radial Tree Growth in a High Elevation Spruce-Fir Ecosystem on Grandfather Mountain, North Carolina.” Grandfather Mountain, Inc. December 2008.

“Climate Change and Associated Changes in Tree Growth on Grandfather Mountain.” Grandfather Mountain, Naturalist Weekend. May 2008.

“Dead Trees, Rebuilding New Orleans, and Indians Fighting Big Coal.” Appalachian State University, Department of Geography Speaker Series, September 2006.

“Basics of Meteorology.” Appalachian State University, Institute for Senior Scholars, April 2005.

“Western Juniper in Central Oregon: Establishment History and the Role of Anthropogenic Disturbance.” University of Tennessee, Department of Geography Colloquium Series, November, 2001.

“The Establishment History of Western Juniper in Central Oregon.” Appalachian State University, Department of Geography and Planning Seminar Series, May 2001.

"Grazing Influences of Western Harvester Ants (*Pogonomyrmex owyheei*) at Two Semirelict Sites in Central Oregon." Appalachian State University, Department of Biology Seminar Series, November, 1995.

"An Eyewitness Account of Hurricane Gilbert, Tropical Storm of the Century." Department of Geography and Planning, Appalachian State University, National Geography Awareness Week Presentations, November, 1993.

"Regionally-Based Droughts in the USA: Spatial Patterns and Teleconnections." Invited Speaker, The Southeast Climate Symposium: Changing Climate and Water Resources, Charleston, SC, October, 1992.

"Spatial and Temporal Patterns of Drought." Department of Geology Seminar Series, University of Alabama, September, 1992.

"Characteristics of Drought in the Contiguous United States." University of North Carolina, Chapel Hill, September, 1992.

"Drought Events in the Contiguous United States: Frequency, Duration, and Spatial Patterns." East Carolina University, January, 1992.

"An Overview of United States Drought Patterns." Summer Minority Research Program Seminar, University of Alabama, June 1992.

"Spatial and Temporal Patterns of Multiple Drought Types in the Contiguous United States." University of Alabama, January, 1989.

"Hurricane Gilbert: Tales from the Eye." Geography Department Colloquium Series. University of Georgia, October, 1988.

GRADUATE STUDENTS DIRECTED:

Glen A. Wiggins, MS, University of Alabama 1991, (thesis); John Bounds, MS, University of Alabama, 1992, (non-thesis); Joe Anzelmo, MS, University of Alabama, 1993 (thesis); Jon C. Acker, MS, University of Alabama, 1994 (thesis); Dan Harris, MA, Appalachian State University, 1996 (thesis); David Hughes III, MA, Appalachian State University, 1997 (thesis); Taylor Dellinger, MA, Appalachian State University, 1997 (thesis); Amanda Todd, MA, Appalachian State University, 2002 (thesis); Candace Tankersley, Appalachian State University, MA, 2002 (applied-track); Ken Bissell, Appalachian State University, MA, 2004 (applied-track); Justin Maxwell, Appalachian State University, MA, 2008 (thesis); Daniel Griggs, Appalachian State University, MA 2009 (applied-track); Philip White, Appalachian State University, MA 2010 (thesis); Joshua Rizor, Appalachian State University, MA 2010 (applied-track); Reece Brown, Appalachian State University, MA 2013 (thesis); Evan Montpellier, Appalachian State University, MA 2018 (thesis); April Kaiser, Appalachian State University, MA 2019 (thesis).

UNDERGRADUATE INTERNSHIPS DIRECTED:

Hinson Hays, summer 2013, Grandfather Mountain State Park, Linville, NC

Jackson Henderson, summer 2013, Blue Ridge Conservancy, Boone, NC

Zachary Parsonage, summer 2014, Winston-Salem Utilities Department, Winston-Salem, NC

PRIMARY RESEARCH INTERESTS:

Global Change (vegetation and atmospheric composition; paleoclimatology)

Climatic extremes (drought, floods, wet spells)

Synoptic Climatology, Natural Hazards, Biogeography

COURSES TAUGHT:

Graduate:

Climatology, Applied Climatology, Global Climates and Meteorology, Natural Hazards, Directed Research in Physical Geography, Physical Environmental Analysis, Advanced Quantitative and Qualitative Methods, Synoptic and Regional Climatology, Tree-Ring Research.

Undergraduate:

Environmental Issues in Appalachia, Introduction to Physical Geography, Introduction to Physical Geography (online version), Weather & Human Societies, Principles of Physical Geography I, Principles of Physical Geography II, Earth Science Survey, Weather and Climate, Weather and Climate (online version), Physical Geography Lab, Climatology, Applied Climatology, Global Climates and Meteorology, Natural Hazards, Quantitative Methods, Recreational Land Use, Introduction to Physical Geography - Honors, Synoptic and Regional Climatology, Global Climate Change, Global Climate Change Laboratory, Communicating Geographic Information.

AWARDS/HONORS:

2015 100 Scholars Award (ASU) (\$1200)

2009 Research Honors Award from the Southeastern Division of the Association of American Geographers.

2007: Featured write-up in the “Research Highlights” section of the journal *Nature* (“Blue-sky Thinking,” *Nature*, V. 450, November 2007, p. 589) about the 2007 manuscript published with P. A. Knapp in *Geophysical Research Letters*.

- 2007: Featured write-up in the “Editor’s Highlights” section of the journal *Geophysical Research Letters* (“Recent Damaging Fire Season may be due to a Decline in Storm Frequency,” *Geophysical Research Letters*, <http://www.agu.org/journals/scripts/highlight.php?pid=2007GL031216>) about the 2007 manuscript published with P. A. Knapp in *Geophysical Research Letters*.
- 2007: Recipient of a Foundation Faculty Travel Study Grant. Appalachian State University (ASU) (\$5500).
- 2003: Mentor for the thesis of Amada Todd, which was selected as ASU’s entry for submission to the Council of Southern Graduate School’s 2004 Master’s Thesis Award in the Social Sciences.
- 2003: Mentor for the thesis of Amanda Todd, which received "Honorable Mention" honors (2nd place) in the annual Cratis Williams Thesis Award competition (ASU).
- 2000: Board of Trustees Travel Study Grant (ASU). (\$3,000)
- 2000: Donald W. Sink Outstanding Scholar Award (ASU). (\$1,000)
- 1999: Wachovia Faculty Award for Environmental Research (ASU). (\$500)
- 1998: Nominated for the College of Arts and Sciences Academy of Outstanding Teachers (ASU).
- 1998: Mentor for the third place thesis of P. Taylor Dellinger, Cratis Williams Thesis Award (ASU).
- 1996: Nominated for the Distinguished Graduate Faculty Award, 1995-1996 (ASU).
- 1995: Nominated to the College of Arts and Sciences Academy of Outstanding Teachers (ASU).
- 1994: Selected to participate in the May/June Grant writing Workshop (ASU). (\$1,500)
- 1990: Winner of the 1989 Robert C. Anderson Dissertation Award, University of Georgia. (\$1,000)
- 1990: Nominated for the NSF Presidential Young Investigator Award, University of Alabama.
- 1989: Nominated for the NSF Presidential Young Investigator Award, University of Alabama.
- 1989: University of Alabama Incentive Award.

- 1987: Winner of the Ph.D. level Student Honors Competition, 42nd Annual Meeting of the Southeastern Division, Association of American Geographers.
- 1986: Outstanding Teaching Assistant Award, University of Georgia.
- 1984: Alumni Scholarship, Appalachian State University.
- 1983: Zigli Research Award, Appalachian State University. (\$50!)
- 1983: Alumni Scholarship, Appalachian State University.
- 1983: Julian Yoder Scholarship, Appalachian State University.

PROFESSIONAL SERVICE:

- 2021-2019 Editorial Board Member, *Southeastern Geographer*
- 2018 External Reviewer, Promotion Committee, Department of Geography and Geology, The University of Southern Mississippi
- 2018 Inclusive Excellence Focus Group, ASU
- 2014 MAP-works focus Group, ASU
- 2013 General Education Focus Group for Development of a Rubric for Evaluation of “Making Local to Global Connections,” ASU
- 2013 General Education Focus Group for Argument-based Writing, ASU
- 2013 General Education Focus Group for Assessment of Seniors, ASU
- 2013 General Education Focus Group for Writing, ASU
- 2012 Faculty Analysis of Student Learning in General Education Focus Group, ASU
- 2011 External Reviewer for Promotion, University of North Carolina Wilmington
- 2011 Science Inquiry Program Focus Group, ASU
- 2011 Science Inquiry Program Assessment Team, ASU
- 2010 General Education Focus Group for Theme Coordinators, ASU
- 2009 Panel Discussant, “The 11th Hour”, ASU (documentary film)

2021-1990 Editorial Board Member, *Climate Research*.

2010-1999 Editorial Board Member, *Southeastern Geographer*

2009-2004 Editorial Board Member, *Professional Geographer*

2008 Lecturer for an in-service teacher's workshop on Global Change hosted by the Department of Geography and Planning, Appalachian State University

2005 Science Focus Seminar: Meteorology. Appalachian State University.

2004-2003 Chair, Best Article Committee, *Southeastern Geographer*

2005-2003 Audit Committee, Southeastern Division, Association of American Geographers

2003-2002 Best Article Committee, *Southeastern Geographer*

2002-2001 Steering Committee, Southeastern Division, Association of American Geographers.

2002-2001 Membership Committee, Southeastern Division, Association of American Geographers.

2002-2001 State Representative for North Carolina, Southeastern Division, Association of American Geographers.

2001 Chair, Association of American Geographers Research Grants Committee.

2000-1999 Association of American Geographers Research Grants Committee.

2000 Program Committee, Annual Meeting of the Southeastern Division, Association of American Geographers.

2019-1988 Manuscript reviewer for: *Geophysical Research Letters*; *International Journal of Climatology*; *Journal of Applied Meteorology and Climatology*; *Journal of Hydrology*; *Journal of Hydrometeorology*; *Climate Research*; *Journal of Biogeography*; *Journal of the American Water Resources Association*; *Northwest Science*; *Annals of the Association of American Geographers*; *Professional Geographer*, *Social Science Quarterly*; *Journal of Geography*; *Physical Geography*; *Southeastern Geographer*; *The North Carolina Geographer*; *AAG Snapshots*; *Focus*; *Rangeland Ecology and Management*; *Forests*; *Journal of Applied Geospatial Research*; *Journal of Geophysical Research-Atmospheres*; *Nature Climate Change*; *Science of the Total Environment*; *Global Change Biology*; *International Journal of Hydrometeorology* (~3 manuscripts)

reviewed/year).

- 2015, 2009, 2004, 2003, 1999, 1993 Proposal Reviewer for the National Science Foundation.
- 2008-1989 Paper discussant, 44th, 45th, 46th, 47th, 49th, 50th, 51st, 52nd, 54th, 55th, 57th, 58th, 62nd, 63rd annual Meetings of the Southeastern Division, AAG.
- 1997, 1996 Resolutions Committee member, Southeastern Division, Association of American Geographers.
- 1997 Lecturer for the "Science of Mapping Institute," an extended in-service teachers workshop funded by an Eisenhower Grant, Appalachian State University.
- 1997-1995 Department of Geography and Planning, ASU. Faculty overseer for the Meteorological Monitoring Project.
- 1996, 1995 Provided "Official", on-air meteorological forecasts for the Appalachian Sports Network for all ASU football games.
- 1995 Two-day in-service teacher's workshop "Meteorology: Weather or Not?" Sponsored by the ASU Mathematics and Science Education Center and the Catawba Science Center, Hickory, NC.
- 1995 Facilitator for a workshop on "Research and Professional Writing" sponsored by the William C. Hubbard Center, ASU (both Spring and Fall semester).
- 1995-1993 Served as a "consulting meteorologist" for the ASU Meteorological Monitoring Project.
- 1994 Presented a series of lectures on climatic change at a NIGEC-funded (National Institute for Global Environmental Change) teacher's workshop on Global Environmental Change at the University of Alabama.
- 1994 Gave a presentation on environmental career options in Geography and Planning at the Earth and ASU program sponsored by Career Development.
- 1993 Honors Committee, Southeastern Division, Association of American Geographers.
- 1993 Proposal reviewer for the Southeastern Regional Climate Center.
- 1993 Proposal reviewer for the U.S. Fish and Wildlife Service.
- 1993-1992 AAG Program Committee Member for the 1993 Atlanta Meeting.

- 1993-1990 Event Organizer, Regional Science Olympiad, University of Alabama, March 1990, 1991, 1992, 1993.
- 1992 Lecturer for a teacher's in-service workshop on "Aspects of Global Environmental Change." University of Alabama.
- 1989 Book Reviewer, Saunders College Publishing.
- 1988 Co-organizer and session chair: 3rd Annual Georgia- Florida Geography Conference, February 1988.

UNIVERSITY COMMITTEE SERVICE:

Appalachian State University

- 2020-21 Faculty Senate (university); Inclusive Excellence Liaison (university, Spring only); Parking and Traffic Advisory Board (university); Campus Planning Committee (university); Theme Coordinator, Global Environmental Change Theme (university); Climate Action Committee (university); Classroom and Computer Committee (departmental); Departmental Personnel Committee (departmental); Remote Sensing Position Hiring Committee (departmental); Chair, Ad Hoc Committee on Faculty Senate Efficiency (university).
- 2019-20 Faculty Senate (university); Inclusive Excellence Liaison (university); PARE Review Committee (university); Parking a Traffic Advisory Board (university); Campus Planning Committee (university); Theme Coordinator, Global Environmental Change Theme (university); Climate Action Committee (university); Classroom and Computer Committee (departmental); Chair, Social Committee (departmental); Post-Tenure Review Committee (departmental); Departmental Personnel Committee (departmental).
- 2018-19 Inclusive Excellence Liaison (university); PARE Review Committee (university); Faculty Senate (university); Campus Planning Committee (university); Theme Coordinator, Global Environmental Change Theme (university); Classroom and Computer Committee (departmental); Social Committee (departmental); Post-Tenure Review Committee (departmental); Departmental Personnel Committee (departmental).
- 2017-18 Chair, Geography Program Assessment Team (departmental); Departmental Curriculum Committee (departmental); Classroom and Computer Committee (departmental); Student Course Evaluation Committee (departmental); Social Committee (departmental); Post-Tenure Review Committee (departmental); Departmental Personnel Committee (departmental); PARE Review Committee (university); Faculty Awards Committee (university); GRAM Awards Committee (university); Theme Coordinator, Global Environmental Change Theme (university).

- 2016-17 Chair, Geography Program Assessment Team (departmental); Departmental Curriculum Committee (departmental); Classroom and Computer Committee (departmental); Hiring Committee, Cartography Position (departmental); Student Course Evaluation Committee (departmental); Social Committee (departmental); PARE Review Committee (university). Theme Coordinator, Global Environmental Change Theme (university).
- 2015-16 Chair, Geography Program Assessment Team (departmental); Classroom and Computer Committee (departmental); PARE Review Committee (university); Theme Coordinator, Global Environmental Change Theme (university). *Note, on OCSA fall 2015.
- 2014-15 Chair, Geography Program Assessment Team (departmental); Departmental Personnel Committee (departmental); Theme Coordinator, Global Environmental Change Theme (university); Post-Tenure Review Committee (departmental); Classroom and Computer Committee (departmental); Science Inquiry Perspective Faculty Coordinating Committee (university); Chair, Hiring Committee, Planning Position (departmental).
- 2013-14 Chair, Geography Program Assessment Team (departmental); Departmental Personnel Committee (departmental); Theme Coordinator, Global Environmental Change Theme (university); Post-Tenure Review Committee (departmental); Classroom and Computer Committee (departmental); Science Inquiry Perspective Faculty Coordinating Committee (university); Chair, Hiring Committee, Physical Geography Position (departmental). Hiring Committee, Planning Position (departmental).
- 2012-13 Chair, Geography Program Assessment Team (departmental); Graduate Program Committee (departmental); Departmental Personnel Committee (departmental); Theme Coordinator, Global Environmental Change Theme (university); Equal Opportunity Associate (departmental).
- 2011-12 Chair, Geography Program Assessment Team (departmental); Chair, Graduate Program Committee (departmental); Departmental Personnel Committee (departmental); Theme Coordinator, Global Environmental Change Theme (university); Equal Opportunity Associate (departmental); Human Geography Position Hiring Committee (departmental); Merit Document Committee (departmental); Post-Tenure Review Committee (departmental); Chair, Graduate Exam Committee (departmental)
- 2010-11 Chair, Classroom Equipment Committee (departmental), Speaker Committee (departmental), Graduate Program Committee (departmental), Social Committee (departmental). Departmental Personnel Committee (departmental), Theme Coordinator, Global Environmental Change Theme (university)

- 2009-10 Chair, Promotion and Tenure Guidelines Committee (departmental) (on OCSA)
- 2008-09 Chair, UNC GA Climate Change Committee (university), Donald W. Sink Outstanding Scholar Award Committee (college), Chair, Promotion and Tenure Guidelines Committee (departmental), Chair, Classroom Equipment Committee (departmental), Speaker Committee (departmental), Textbook Policy Committee (departmental).
- 2007-08 Donald W. Sink Outstanding Scholar Award Committee (college), Chair, Promotion and Tenure Guidelines Committee, Chair, Classroom Equipment Committee (departmental), Chair, Social Committee (departmental), Speaker Committee (departmental), Comprehensive Exams Committee (departmental), Textbook Policy Committee (departmental), Chair, Hiring Committee for Geography Lecture Position (departmental), Chair.
- 2006-07 Donald W. Sink Outstanding Scholar Award Committee (college), Chair, Promotion and Tenure Guidelines Committee, Chair, Classroom Equipment Committee (departmental), Chair, Social Committee (departmental), Speaker Committee (departmental), Comprehensive Exams Committee (departmental).
- 2005-06 Chair, Classroom Equipment Committee (departmental), Graduate Committee (departmental), Departmental Personnel Committee-alternate (departmental), Speaker Committee (departmental).
- 2004-05 Chair, Classroom Equipment Committee (departmental), Chair, Graduate Committee (departmental), Departmental Personnel Committee-alternate (departmental), Speaker Committee (departmental), Co-chair, Student Awards Committee (departmental).
- 2003-04 Chair, Classroom Equipment Committee (departmental), Graduate Committee (departmental), Departmental Personnel Committee-alternate (departmental), Speaker Committee (departmental).
- 2002-03 Departmental Personnel Committee (departmental), Chair, Classroom Equipment Committee (departmental), Graduate Committee (departmental), Speaker Committee (departmental).
- 2001-02 Departmental Personnel Committee (departmental), Classroom Equipment Committee (departmental), Chair, Graduate Committee (departmental), Speaker Committee (departmental), Chair, Honors and Awards Committee-Graduate (departmental), Departmental Chairperson Search Committee (departmental), Graduate School Scholarship Committee (university), Cratis Williams Outstanding Thesis Award Committee (university).
- 2000-01 University Research Council (university), Board of Trustees Travel Study Grant Committee (university), Chair, Office of Research and Sponsored Programs

- Strategic Plan Committee (university-wide), Graduate School Scholarship Committee (university), Patent and Copyright Committee (university), Promotion and Tenure Guidelines Revision Committee (departmental), Chair, Honors and Awards Committee (departmental), Chair, Graduate Committee (departmental), Teaching Evaluation Committee (departmental).
- 1999-00 Chair, Julian Yoder Scholarship Committee (departmental), Graduate Committee (departmental), Teaching Assistant Award Committee (departmental), University Research Council (university), Patent and Copyright Committee (university, Chair, Comprehensive Exams Committee (departmental), Chair, Office of Research and Sponsored Programs Strategic Plan Committee (university), Graduate School Scholarship Committee (university).
- 1998-99 Board of Trustees Travel Study Grant Committee (university), Excellence in Scholarship Award Committee (college), Chair, Julian Yoder Scholarship Committee (departmental), Departmental Personnel Committee (departmental), DPC Equal Opportunity Associate (departmental), Graduate Committee (departmental), Teaching Assistant Award Committee (departmental), Curriculum Committee (departmental), University Research Council (university), Patent and Copyright Committee (university), Computer Committee (departmental), Chair, Comprehensive Exams Committee (departmental).
- 1997-98 Excellence in Scholarship Award Committee (college). Chair, Julian Yoder Scholarship Committee (departmental), Departmental Personnel Committee (departmental), DPC Equal Opportunity Associate (departmental), Graduate Committee (departmental), Outstanding Graduate Teaching Assistant Committee (departmental), Curriculum Committee (departmental), Speaker Committee (departmental), Chair, Chairperson Search Committee (college).
- 1996-97 Excellence in Scholarship Award Committee (college). University Research Council Competitive Grants Committee (university-wide), Chair, Julian Yoder Scholarship Committee (departmental), Departmental Personnel Committee (departmental), DPC Equal Opportunity Officer (departmental) Graduate Committee (departmental), Outstanding Graduate Teaching Assistant Committee (departmental), Curriculum Committee (departmental), Speaker Committee (departmental), Appalachian Geographical Society Advisor (departmental), Gamma Theta Upsilon Advisor (departmental).
- 1995-96 Chair, Julian Yoder Scholarship Committee (departmental), Outstanding Graduate Teaching Assistant Committee (departmental), Honors Director for Geography and Planning, Curriculum Committee (departmental), Speaker Committee (departmental).
- 1994-95 Chancellor's Scholarship Committee (university), Julian Yoder Scholarship Committee (departmental), Outstanding Graduate Teaching Assistant Committee (departmental), Honors Director for Geography and Planning, Curriculum Committee (departmental).

1993-94 Julian Yoder Scholarship Committee (departmental), Outstanding Graduate Teaching Assistant Committee (departmental).

University of Alabama

1992-93 Energy Management Committee (university), Graduate Program Committee (departmental), Textbook Selection Committee (departmental).

1991-92 Energy Management Committee (university), Graduate Program Committee (departmental), Textbook Selection Committee (departmental), Chairperson Selection Committee (departmental).

1990-91 Energy Management Committee (university), Graduate Program Committee (departmental), Textbook Selection Committee (departmental).

1989-90 Graduate Program Committee (departmental), Space Allocation Committee (departmental).

PERSONAL:

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