

ASHLEY BRIGHAM MORRIS

Furman University, Department of Biology, Greenville, South Carolina 29613

Email: ashley.morris@furman.edu; Webpage: themorrislab.weebly.com**EDUCATION**

| | | |
|------|-------------------------|---|
| 2006 | Ph.D., Botany | Florida Museum of Natural History, University of Florida |
| 2001 | M.S., Botany | Department of Botany, University of Tennessee |
| 1997 | B.S., Natural Resources | Department of Forestry and Geology, University of the South - Sewanee |

PROFESSIONAL EXPERIENCE

| | | |
|--------------|--|---|
| 2022-present | Professor | Department of Biology Furman University, Greenville, SC |
| 2019-2022 | Associate Professor | Department of Biology Furman University, Greenville, SC |
| 2018-2019 | Administrative Fellow to the Dean of the College of Basic and Applied Sciences | Middle Tennessee State University, Murfreesboro, TN |
| 2016-2019 | Associate Professor | Department of Biology Middle Tennessee State University, Murfreesboro, TN |
| 2011-2016 | Assistant Professor | Department of Biology Middle Tennessee State University, Murfreesboro, TN |
| 2007-2011 | Assistant Professor | Department of Biology University of South Alabama, Mobile, AL |
| 2001-2007 | Research Assistant | Florida Museum of Natural History University of Florida, Gainesville, FL |
| 2000-2001 | Teaching Assistant | School of Biological Sciences Washington State University, Pullman, WA |
| 1998-2000 | Teaching Assistant | Department of Botany University of Tennessee, Knoxville, TN |
| 1997-1998 | Research Technician | Dept. of Entomology & Plant Pathology University of Tennessee, Knoxville, TN |

PEER-REVIEWED PUBLICATIONS

*UNDERGRADUATE STUDENT AUTHORS; **GRADUATE STUDENT AUTHORS

1. **Morris AB**, Visger C, Watkins S*, Pollack C (2023) Extremely low levels of genetic variation and predicted shifts in suitable niche space for a geographically disjunct, federally endangered legume, leafy prairie-clover (*Dalea foliosa*). *Castanea*, 88: 91-110. [Access this paper here.](#)
2. Monfils AK, Krimmel ER, Linton DL, Marsico TD, **Morris AB**, Ruhfel BR (2022) Collections education: The extended specimen and data acumen. *BioScience*, 72: 177-188. [Access this paper here.](#)
3. Hays K, Havran JC, Heard MJ, **Morris AB**, Ovueraye L (2021) From then to now: Diversity, equity, and inclusion in the Association of Southeastern Biologists. *Frontiers in Sociology*, 6. [Access this paper here.](#)

4. Oppmann E*, **Morris AB** (2021) Assessing the clonal nature of running glade clover (*Trifolium calcaricum* J.L. Collins & T.F. Wieboldt; Fabaceae). *Castanea*, 86:117-124. [Access this paper here.](#)
5. **Morris AB**, Trostel K**, Scalf C*, Burleyson A*, Call G, Albrecht MA (2021) Genetic variation and structure in natural and reintroduced populations of the endangered legume, Pyne's ground plum (*Astragalus bibullatus*). *Conservation Genetics*, 22: 443-454. [Access this paper here.](#)
6. Powell C**, Krakowiak A**, Fuller R**, Rylander E**, Gillespie E, Krosnick S, Ruhfel B, **Morris AB**, Shaw J (2021) Estimating herbarium specimen digitization rates: accounting for human experience. *Applications in Plant Sciences*, 9: e11415. [Access this paper here.](#)
7. Marsico TD, Krimmel ER, Carter JR, Gillespie EL, Lowe PD**, McCauley R, **Morris AB**, Nelson G, Smith M, Soteropoulos DL, Monfils AK (2020) Small herbaria contribute unique biogeographic records to county, locality, and temporal scales. *American Journal of Botany*, 107: 1577-1587. [Access this paper here.](#)
8. Rumble L**, Taylor G, Grinath JB, **Morris AB** (2020) Measuring spatial and temporal shifts in forest structure and composition in high elevation beech forests in response to beech bark disease in Great Smoky Mountains National Park. *Forest Ecology and Management*, 461: April, 117954. [Access this paper here.](#)
9. **Morris AB**, Shaw J (2018) Markers in time and space: a review of the last decade of plant phylogeographic methods. *Molecular Ecology*, 27, 2317-2333. [Access this paper here.](#)
10. Yost JM, Sweeney PW, Gilbert E, Nelson G, Guralnick R, Gallinat AS, Ellwood ER, Rossington N, Willis CG, Blum SD, Walls RL, Haston EM, Denslow MW, Zohner CM, **Morris AB**, Stucky BJ, Carter JR, Baxter DG, Bolmgren K, Denny EG, Dean E, Davis CC, Mishler BD, Soltis PS, Mazer SJ (2018) Digitization protocol for scoring phenology from herbarium specimens of seed plants. *Applications in Plant Sciences*, 6, e1022. [Access this paper here.](#)
11. Evans J, **Morris AB** (2016) Isolated coastal populations of *Tilia americana* var. *caroliniana* exhibit long-term persistence through vegetative growth. *American Journal of Botany*, 103, 1687-1693. [Access this paper here.](#)
12. Fan D, Hu W, Li B, **Morris AB**, Zheng M, Soltis DE, Soltis PS, Zhang Z (2016) Idiosyncratic responses of evergreen broad-leaved forest constituents in China to the late Quaternary climate changes. *Scientific Reports*, 6, 31044. [Access this paper here.](#)
13. **Morris AB**, Scalf C*, Burleyson A*, Johnson LT*, Trostel K** (2016) Development and characterization of microsatellite primers in the federally endangered *Astragalus bibullatus* (Fabaceae). *Applications in Plant Sciences*, 4, 1500126. [Access this paper here.](#)
14. Howell JS**, **Morris AB** (2016) Niche partitioning in sympatric *Sarracenia* species at Splinter Hill Bog Preserve, Baldwin County, Alabama. *Carnivorous Plant Newsletter*, 45, 12-18.
15. Nelson G, Sweeney P, Wallace LE, Rabeler RK, Allard D, Brown H, Carter RJ, Denslow MW, Ellwood ER, Germain-Aubrey CC, Gilbert E, Gillespie E, Goertzen LR, Legler B, Marchant DB, Marsico TD, **Morris AB**, Murrell Z, Nazaire M, Neefus C, Oberreiter S, Paul D, Ruhfel BR, Sasek T, Shaw J, Soltis PS, Watson K, Weeks A, Mast AR (2015) Digitization workflows for flat sheets and packets of plants, algae, and fungi. *Applications in Plant Sciences*, 3, 1500065. [Access this paper here.](#)
16. Shaw J, Shafer HL*, Leonard OR**, Kovach MJ, Schorr M, **Morris AB** (2014) Chloroplast DNA sequence utility for the lowest phylogenetic and phylogeographic inferences in angiosperms: The tortoise and hare IV. *American Journal of Botany*, 101, 1987-2004. [Access this paper here.](#)
17. Hieb EE**, Nelson DH, **Morris AB** (2014) Oviductal eggs from road-kill turtles provide a novel source of DNA for population studies of the Alabama red-bellied turtle. *Conservation Genetics Resources*, 6, 837-839. [Access this paper here.](#)
18. Hieb EE**, Nelson DH, **Morris AB** (2014) Genetic monitoring reveals loss of microsatellite diversity in a breeding population of the endangered Alabama red-bellied turtle. *Endangered Species Research*, 23, 253-261. [Access this paper here.](#)

19. **Morris AB**, Millsaps NK*, Mason KQ*, Howell JS**, Speer JH (2014) Mature beech trees (*Fagus grandifolia*; Fagaceae) are persistently clonal in coves and beech gaps in the Great Smoky Mountains. *American Journal of Botany*, 101, 1-8. [Access this paper here.](#)
20. Jackson TG**, Nelson DH, **Morris AB** (2012) Phylogenetic relationships in the North America genus *Pseudemys* (Emydidae) inferred from two mitochondrial genes. *Southeastern Naturalist*, 11, 297-310. [Access this paper here.](#)
21. Hieb EE**, Jackson TG**, Nelson DH, **Morris AB** (2011) Characterization of eight polymorphic microsatellite loci for the endangered Alabama red-bellied turtle (*Pseudemys alabamensis*; Emydidae). *Conservation Genetics Resources*, 3, 781-783. [Access this paper here.](#)
22. Newell DH*, **Morris AB** (2010) Clonal structure of wild populations and origins of horticultural stocks of *Illicium parviflorum* (Illiciaceae). *American Journal of Botany*, 97, 1-5. [Access this paper here.](#)
23. **Morris AB**, Graham CH, Soltis DE, Soltis PS (2010) Reassessment of phylogeographical structure in an eastern North American tree using Monmonier's algorithm and ecological niche modelling. *Journal of Biogeography*, 37, 1657-1667. [Access this paper here.](#)
24. Judd WS, Abbott JR, **Morris AB** (2008) *Illicium guajaibonense*, elevated to subspecies rank and compared with the subspecies of *Illicium cubense* (Illiciaceae). *Journal of Botanical Research Institute of Texas*, 2, 799-806.
25. **Morris AB**, Ickert-Bond SM, Brunson DB**, Soltis DE, Soltis PS (2008) Phylogeographical structure and temporal complexity in American sweetgum (*Liquidambar styraciflua*; Altingiaceae). *Molecular Ecology*, 17, 3889-3900. [Access this paper here.](#)
26. **Morris AB**, Bell CD, Clayton JW, Judd WS, Soltis DE, Soltis PS (2007) Phylogeny and divergence time estimation in *Illicium* with implications for New World biogeography. *Systematic Botany*, 32, 236-249. [Access this paper here.](#)
27. Soltis DE, **Morris AB**, McLachlan JS, Manos PS, Soltis PS (2006) Comparative phylogeography of unglaciated eastern North America. *Molecular Ecology*, 15, 4261-4293. [Access this paper here.](#)
28. Sherman TD, Boone E, **Morris AB**, Woodard A, Goldman E, Martin DL, Gautier C, O'Brien JJ (2008) Investigations of internal interactions between the parasitic barnacle *Loxothylacus texanus* (Rhizocephala: Sacculinidae) and its host *Callinectes sapidus* (Brachyura: Portunidae) using PCR techniques. *Journal of Crustacean Biology*, 28, 220-227. [Access this paper here.](#)
29. Guerrero A, Judd WS, **Morris AB**** (2004) A new species of *Illicium* subsection *Parviflora* from the Massif de la Hotte, Haiti. *Brittonia*, 56, 346-352.
30. **Morris AB****, Small RL, Cruzan MB (2004) Variation in frequency of clonal reproduction among populations of *Fagus grandifolia* Ehrh. in response to disturbance. *Castanea*, 69, 38-51. [Access this paper here.](#)
31. Scheen AC**, Brochmann C, Brysting AK, Elven R, **Morris AB****, Soltis DE, Soltis PS, Albert VA (2004) Northern hemisphere biogeography of *Cerastium* (Caryophyllaceae): Insights from phylogenetic analysis of noncoding plastid nucleotide sequences. *American Journal of Botany*, 91, 943-952. [Access this paper here.](#)
32. **Morris AB****, Small RL, Cruzan MB (2002) Investigating the relationship between *Cryptococcus fagisuga* and *Fagus grandifolia* in Great Smoky Mountains National Park. *Southeastern Naturalist*, 1, 415-424. [Access this paper here.](#)
33. **Morris AB****, Baucom RS*, Cruzan MB (2002) Stratified analysis of the soil seed bank in the cedar glade endemic *Astragalus bibullatus*: evidence for historical changes in genetic structure. *American Journal of Botany*, 89, 29-36. [Access this paper here.](#)

EDITED BOOK CHAPTERS

1. **Morris AB**, Baskauf CJ, Diggs JT, Egan AN, Lincicome D, Mandel JR, Visger CJ (2021) Conserving the flora of limestone cedar glade communities of the Southeastern United States. In Della Sala DA, Goldstein MI (eds.) *Imperiled: The Encyclopedia of Conservation* (pp. 336-346), Elsevier. [Access this chapter here.](#)

EXTERNAL GRANTS AND CONTRACTS

| | | |
|-----------|---|------------------|
| 2022-2023 | US Fish and Wildlife Service (USFWS) PI: AB Morris <i>Assessment of clonal and genetic structure in bunched arrowhead (Sagittaria fasciculata; Alismataceae)</i> | \$20,316 |
| 2022-2023 | Southeastern Grasslands Initiative (SGI) PI: AB Morris <i>Population genetics and clonal structure of Sarracenia oreophila at Little River Canyon</i> | \$16,563 |
| 2020-2023 | US Fish and Wildlife Service (USFWS) PI: Tennessee Department of Environment and Conservation [TDEC], Co-PIs: AB Morris [Furman] & MA Albrecht [Missouri Botanical Garden] <i>Strategic habitat conservation for the recovery of two federally listed species in Tennessee</i> *Total funded was \$123,753; Furman subaward is \$21,403 | \$123,753 |
| 2017-2020 | Tennessee Wildlife Resources Agency (TWRA) PI: R Otter [MTSU], Co-PI: AB Morris [MTSU] <i>Analysis of genetic diversity among zebra mussels in Tennessee</i> | \$15,000 |
| 2014-2018 | NSF Advancing Digitization of Biological Collections (ADBC) PI: J Shaw [UTC]; Co-PIs: AB Morris [MTSU] & D Estes [APSU] <i>Digitization TCN: Collaborative Research: The Key to the Cabinets: Building and sustaining a research database for a global biodiversity hotspot</i> | \$301,164 |
| 2014-2018 | US Fish and Wildlife Service (USFWS) PI: AB Morris [MTSU] <i>Population genetic structure of two federally endangered legumes, Astragalus bibullatus and Dalea foliosa</i> | \$39,568 |
| 2013-2014 | US Fish and Wildlife Service (USFWS) PI: AB Morris [MTSU] <i>Characterization of nuclear microsatellite loci in the federally endangered Astragalus bibullatus (Fabaceae) endemic to the limestone cedar glades of Middle Tennessee</i> | \$5,112 |
| 2012-2013 | Discover Life in America (DLIA) PI: AB Morris [MTSU] <i>ATBI: Soil microbial communities of the beech gaps of Great Smoky Mountains National Park</i> | \$3,500 |
| 2011-2012 | BP / Marine Env. Sciences Consortium (MESC) at Dauphin Island Sea Lab (DISL) PI: Anne Boettcher [USA], Co-PI: AB Morris [USA] <i>Gulf of Mexico ecosystem integrity: Resilience of seagrass beds to oil contamination</i> | \$77,060 |
| 2011-2012 | US Fish and Wildlife Service (USFWS) PI: AB Morris [USA] <i>Reproductive ecology and population genetic analysis of the Alabama red-bellied turtle</i> | \$28,369 |
| 2010-2012 | Institute for Marine Mammal Studies (IMMS) PI: AB Morris [USA] <i>Genetic assessment of bottlenose dolphins stranded in Mississippi and Alabama before and after the Deepwater Horizon oil spill</i> NOTE: This award was cancelled by IMMS in April 2011 due to a NOAA directive prohibiting the analysis of any dolphin tissues beginning in February 2010 as a result of 1) the BP oil spill and 2) an Unusual Mortality Event (UME) affecting bottlenose dolphins in the Northern Gulf of Mexico. | \$47,314 |
| 2010-2011 | Institute for Marine Mammal Studies (IMMS) PI: AB Morris [USA] <i>Preliminary genetic survey of bottlenose dolphins stranded in Mississippi and Alabama</i> | \$6,334 |

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| 2010-2012 | NSF DUE Course Curriculum and Lab Improvement (CCLI) PI: AB Morris [USA], Co-PIs: S Ní Chadhain, T Sherman, & R Gray [USA] <i>Integrating genomics and bioinformatics into an ecology and evolution-based undergraduate curriculum</i> | \$199,496 |
| 2009-2010 | International Carnivorous Plant Society (ICPS) PI: AB Morris [USA] <i>Assessing abiotic and genetic control of pitcher morphology in Sarracenia</i> | \$3,400 |
| 2008-2009 | LI-COR Biosciences Genomics Education Matching Fund (GEMF) PI: AB Morris [USA] | \$61,739 + match from USA \$41,000 |
| 2003-2004 | Florida Native Plant Society (FNPS) PI: AB Morris [UF - Graduate Student] <i>The Illicium parviflorum Michx. ex Vent. (Illiciaceae) paradox: an endangered Florida endemic and its role in the horticultural trade</i> | \$988 |
| 2002-2003 | Botanical Society of America (BSA) Karling Award PI: AB Morris [UF - Graduate Student] <i>Exploring the biogeographic history of eastern North American trees: a comparative phylogeographic approach</i> | \$500 |
| 2002-2003 | American Society of Plant Taxonomists (ASPT) Graduate Student Research Award PI: AB Morris [UF - Graduate Student] <i>Phylogenetic patterns in New World Illicium</i> | \$750 |
| 2002-2003 | Society of Systematic Biologists (SSB) Graduate Student Award PI: AB Morris [UF - Graduate Student] <i>Comparative phylogeography of eastern North American flora</i> | \$1,897 |
| 2002-2003 | Florida Native Plant Society (FNPS) Endowment Grant PI: AB Morris [UF - Graduate Student] <i>Population genetic structure of an endangered Florida endemic plant, Illicium parviflorum</i> | \$498 |
| 2002-2005 | Canon National Parks Science Scholars Program PI: AB Morris [UF - Graduate Student] <i>Biogeographic patterns in Eastern North America: Phylogeography of a regional flora with implications for modeling potential future species distributions</i> | \$78,000 |
| 2001-2002 | Canon National Parks Science Scholars Program - Honorable Mention PI: AB Morris [UF - Graduate Student] <i>Potential barriers to migration in Fagus grandifolia: implications for modeling population distributions under global climate change</i> | \$2,000 |
| 1999-2000 | Great Smoky Mountains Natural History Association Carlos Campbell Fellowship PI: AB Morris [UTK - Graduate Student] <i>Genetic resistance to beech bark disease in American beech in Great Smoky Mountains National Park</i> | \$3,600 |

INTERNAL GRANTS AND CONTRACTS

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|-----------|--|-----------------|
| 2021-2024 | Furman University Furman Standard Faculty Research Grant PI: A Morris <i>Development of the South Carolina Plant Atlas online resource</i> | \$13,000 |
| 2017-2018 | MTSU Faculty Research and Creative Activity Committee (FRCAC) Award PI: AB Morris [MTSU] <i>Using new molecular tools to address old taxonomic questions in North American Clematis (the leather flowers)</i> | \$10,000 |

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| 2014-2015 | MTSU Foundation Special Projects PI: AB Morris [MTSU] <i>MTSU Virtual herbarium project</i> | \$9,000 |
| 2014-2015 | MTSU Faculty Research and Creative Activity Committee (FRCAC) Award PI: AB Morris [MTSU] <i>Using non-coding chloroplast DNA to resolve phylogeographic patterns in trees</i> | \$6,044 |
| 2012-2013 | MTSU Faculty Research and Creative Activity Committee (FRCAC) Award PI: AB Morris [MTSU] <i>Development of a molecular toolbox for understanding relatedness in a medicinally important group of plants (the star anise family; Illiciaceae)</i> | \$9,950 |
| 2009-2010 | USA Arts & Sciences Support and Development PI: AB Morris [USA] <i>Molecular systematics and population genetics seminar series</i> | \$1,500 |
| 2008-2009 | USA Research Council PI: AB Morris [USA] <i>Phylogeographic structure of eastern North American trees: a molecular approach</i> | \$4,997 |
| 2008-2009 | USA Arts & Sciences Summer Professional Development PI: AB Morris [USA] <i>Phylogeographic structure of eastern North American trees: a molecular approach</i> | \$6,000 |

TEACHING EXPERIENCE

| | | |
|--------------|--|---|
| 2019-present | Courses taught at Furman University | |
| | BIO 509 Experience in Research BIO 503 Individualized Internship BIO 502 Research BIO 402 Ethnobiology BIO 401 Applied Plant Science / Economic Botany BIO 400 Field Botany BIO 346 Forest Ecology BIO 270 Parks and People: Great Smoky Mountains BIO 213 Population Genetics and Evolution BIO 210 Genetics BIO 075 Seminar in Biology | |
| 2011-2019 | Courses taught at Middle Tennessee State University | |
| | BIOL 6640 Graduate Thesis Research BIOL 6500 Special Problems in Biology BIOL 4280 Undergraduate Research BIOL 4120 / 5120 Flowering Plants BIOL 4070 / 6070 Economic Botany BIOL 3250 Genetics Lecture BIOL 1000 Introduction to the Biology Major MOBI 7500 Directed Research | BIOL 6620 Graduate Biological Research BIOL 4330 Biome Analysis (SmokyMtnU) BIOL 4200 Senior Seminar BIOL 4090 / 6090 Forest Ecology BIOL 4060 / 6060 Dendrology BIOL 3251 Genetics Lab (Instructor & Lab Coordinator) MOBI 7300 Special Topics |
| 2007-2011 | Courses taught at University of South Alabama | |
| | BLY 595 Graduate Directed Studies BLY 494 Undergraduate Directed Studies BLY 490 Special Topics: Molecular Markers BLY 302 Genetics (Previously taught as BLY 311 Lecture and 312 Lab) BLY 122L General Biology II Lab | |
| 1998-2004 | Courses taught as a Graduate Teaching Assistant | |
| | BOT 3151 Local Flora of North Florida (Lab; University of Florida) | |

BOT 2800 Plants in Human Affairs (Lecture; University of Florida)
 BOT 2011 Plant Diversity (Lab; University of Florida)
 BOT 2010 Introduction to Botany (Lab; University of Florida)
 BIOL 102 General Biology (Lab; Washington State University)
 BIO 250 Ecology (Lab; University of Tennessee Knoxville)
 BIO 102 Biology II for non-majors (Lab; University of Tennessee Knoxville)
 BIO 101 Biology I for non-majors (Lab; University of Tennessee Knoxville)

SYNERGISTIC ACTIVITIES

Professional Service

Elected Offices and Appointed Positions

| | | |
|---------------|---|---------------------|
| 2023-2024 | Southern Appalachian Botanical Society (SABS) | President Elect |
| 2021-2022 | Southeastern Section of Society of Herbarium Curators (SE SHC) | Affiliate Liason |
| 2020-2024 | Systematic Botany, journal of American Society of Plant Taxonomists | Associate Editor |
| 2019-2021 | Association of Southeastern Biologists (ASB) | Past President |
| 2017-2019 | Association of Southeastern Biologists (ASB) | President |
| 2016-2020 | Systematic Botany, journal of American Society of Plant Taxonomists | Associate Editor |
| 2016 (Fall) | National Science Foundation (NSF) DEB | Electronic Reviewer |
| 2016 (Spring) | National Geographic Society (NGS) | Grant Reviewer |
| 2016 (Spring) | Society of Herbarium Curators (SHC) | Grant Reviewer |
| 2015-2016 | Association of Southeastern Biologists (ASB) | President-Elect |
| 2015 (Spring) | American Society of Plant Taxonomists (ASPT) | Grant Reviewer |
| 2014-2015 | Southeastern Section of Society of Herbarium Curators (SE SHC) | Chair |
| 2014-2015 | Association of Southeastern Biologists (ASB) | Vice-President |
| 2014 (Fall) | National Science Foundation (NSF) DEB | Panelist |
| 2014 (Spring) | National Science Foundation (NSF) DEB | Panelist |
| 2011 (Summer) | National Science Foundation (NSF) DUE | Panelist |
| 2010-2019 | Association of Southeastern Biologists (ASB) | Web Editor |
| 2010-2013 | Association of Southeastern Biologists (ASB) | Member-at-Large |
| 2010 (Summer) | National Science Foundation (NSF) DUE | Panelist |
| 2009-2011 | Association of Southeastern Biologists (ASB) | Education Committee |
| 2007-2009 | Botanical Society of America (BSA) | Webpage Committee |

Peer-review Service

(Journals for which I have reviewed one or more manuscripts)

| | | |
|-------------------------------------|--|---------------------------------------|
| African J. of Biotechnology | American J. of Botany | Annals of Botany |
| Applications in Plant Sciences | Botanical J. of the Linnean Society | Castanea |
| Conservation Biology | Conservation Genetics | Evolution |
| Genetica | International J. of Molecular Sciences | International J. of Plant Sciences |
| J. of Biogeography | J. of Systematics and Evolution | J. of the Torrey Botanical Society |
| J. of Tropical Forest Science | Molecular Ecology | Molecular Phylogenetics and Evolution |
| Organisms, Diversity, and Evolution | Plant Molecular Biology Reporter | PLoS One |
| Systematic Botany | | |

University Service

University

| | |
|--------------|---|
| 2020-2021 | STEM Diversity, Equity, and Inclusion Committee, Chair |
| 2020-present | Furman Academic Discipline Committee |
| 2016-2019 | MTSU University Committee on Academic Misconduct |
| 2014-2016 | MTSU University Building Naming Committee |
| 2013-2014 | MTSU University Committee on Academic Misconduct |
| 2009-2011 | USA Institutional Animal Use and Care Committee (IACUC) |
| 2007-2010 | USA Biology Student Association (BSA) Faculty Advisor |
| 2007-2010 | USA University Committee on Undergraduate Research (UCUR) |

2007 Summer Program Mentor
 USA Alabama Louis Stokes Alliance for Minority Participation (ALSAMP) Mentor

College

2015-2019 MTSU Molecular Biosciences PhD Program Executive Committee
 2010-2011 USA College of A&S Support and Development Awards Committee
 2008-2010 USA College of A&S Academic Programs and Planning Committee

Department or School

2021-2022 Furman Department of Biology Faculty Search Committee
 2018-2019 MTSU Department of Biology Promotion and Tenure Committee
 2017-2018 MTSU Department of Biology Toxicology Faculty Search Committee
 2017-2018 MTSU Department of Biology Promotion and Tenure Committee
 2014-2016 MTSU Department of Biology Web Committee
 2014-2015 MTSU Department of Biology Strategic Planning Committee
 2014-2017 MTSU Department of Biology Freshman Course Committee
 2014-2015 MTSU Department of Biology Clicker Committee
 2013-2019 MTSU Department of Biology Greenhouse Advisory Committee
 2011-2019 MTSU Department of Biology Graduate Admissions Committee
 2011-2015 MTSU Department of Biology Graduate Scholarship Committee (Chair 2014-2015)
 2011-2012 MTSU Department of Biology Genomics Faculty Search Committee
 2008-2009 USA Department of Biology Microbiology Faculty Search Committee
 2009-2010 USA Department of Biology Instructor Search Committee
 2010-2011 USA Department of Biology Genetics Faculty Search Committee

Public Outreach and Service

2017-2023 Annual Spring Wildflower Pilgrimage in Great Smoky Mountains National Park;
 Planning Committee member; Hike and Program Leader
 2013-2014, 2016, 2019 Tennessee Science Olympiad Regional Tournament (MTSU) Event Coordinator;
 Elementary (2013, 2014, 2016) and High School (2013, 2014, 2019)
 2011 Mobile County (Alabama) Schools Science Fair Judge
 2010 Mobile County (Alabama) Schools Teacher In-service presentation (Epigenetics)

PROFESSIONAL MEMBERSHIPS

American Society of Plant Taxonomists (ASPT)
 Association of Southeastern Biologists (ASB)
 Botanical Society of America (BSA)
 Southern Appalachian Botanical Society (SABS)
 Society of Herbarium Curators (SHC)