

Kevin M. Potter

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Education:

Doctor of Philosophy in Forestry (Ecology Minor) August 2006

North Carolina State University, Raleigh, North Carolina
Dissertation advisor: Dr. John Frampton
Dissertation title: “Evolutionary History and Genetic
Conservation of Fraser Fir (*Abies fraseri*)”

Master of Science in Natural Resources December 2002

North Carolina State University, Raleigh, North Carolina
Thesis advisor: Dr. Fred Cabbage
Thesis title: “Landscape Characteristics and North Carolina
Stream Life: A Multiple-Scale Ecological Risk
Assessment of Nonpoint Source Pollution”

Bachelor of Arts in Journalism and Mass Communication May 1993

Drake University, Des Moines, Iowa
Graduated magna cum laude, with College Honors

Research Experience:

Research Assistant Professor July 2007 – present

USDA Forest Service, Forest Health Monitoring Program
and Department of Forestry and Environmental Resources
North Carolina State University, Raleigh, North Carolina

- Applying community phylogenetic tools to explore evolutionary relationships within forest tree communities, and to better understand their response to invasive pests and pathogens
- Assessing the risk of climate change to the genetic viability of North American tree species
- Assisting in the production of the annual Forest Health Monitoring national report on the health of U.S. forests

Postdoctoral Research Associate July 2006 – July 2007

Central America and Mexico Coniferous Research
Cooperative (CAMCORE)
North Carolina State University, Raleigh, North Carolina

- Used amplified fragment length polymorphisms (AFLP) to research the genetic diversity and architecture of Carolina hemlock (*Tsuga caroliniana*), a rare Southern Appalachian endemic
- Employed microsatellite markers to explore the evolutionary history of eastern hemlock (*Tsuga canadensis*), an imperiled species with significant ecological importance
- Implemented an *ex situ* gene conservation strategy for Fraser fir (*Abies fraseri*)

Graduate Fellow and Research Assistant

August 2001 – July 2006

Department of Forestry and Environmental Resources
North Carolina State University, Raleigh, North Carolina

August 2002-July 2006

- Developed mathematical model to simulate population genetic dynamics of Fraser fir
- Assessed conservation status of Fraser fir, and developed gene conservation strategy for this imperiled Southern Appalachian endemic
- Used microsatellite markers to quantify the genetic architecture and diversity of Fraser fir (*Abies fraseri*) populations

August 2001-August 2002

- Researched the impact of land cover changes and forestry best management practices on water quality in the Southeastern United States, with an emphasis on benthic macroinvertebrates
- Developed an ecological risk assessment approach to forecast future changes in North Carolina water quality, as measured by the health of benthic macroinvertebrate communities
- Used geographic information system software to track and analyze landscape changes in North Carolina watersheds
- Funded as part of U.S. Environmental Protection Agency grant for research on aquatic vulnerability of streams in the Southeastern United States

Grants:

- Lead Principal Investigator (one of three), “Assessing Forest Tree Risk of Extinction and Genetic Degradation from Climate Change,” \$30,000, USDA Forest Service Cooperative Agreement 09-CA-11330146-078, 2009-2010.
- Principal Investigator (one of four), “Forest Health Monitoring, Assessment and Analysis,” \$250,000, USDA Forest Service Joint Research Agreement 08-JV-11330146-078, 2009-2010.
- Principal Investigator (one of four), “Forest Health Monitoring and Assessment,” \$259,911, USDA Forest Service Joint Research Agreement 08-JV-11330146-078, 2008-2009.

Refereed Publications:

Potter, K.M., J. Frampton, S.A. Josserand, and C.D. Nelson. *In press*. Evolutionary history of two endemic Appalachian conifers revealed using microsatellite markers. *Conservation Genetics*. DOI:10.1007/s10592-009-9980-3.

Dvorak, W.S., **K.M. Potter**, V.D. Hipkins, and G.R. Hodge. 2009. Genetic diversity and gene exchange in *Pinus oocarpa*, a Mesoamerican pine with resistance to the pitch canker fungus (*Fusarium circinatum*). *International Journal of Plant Sciences*. 170(5):609-626. DOI:10.1086/597780.

Potter, K.M., J. Frampton, S.A. Josserand, and C.D. Nelson. 2008. Genetic variation and population structure in Fraser fir (*Abies fraseri*): A microsatellite assessment of young trees. *Canadian Journal of Forest Research*. 38:2128-2137. DOI:10.1139/X08-064.

Josserand, S.A., **K.M. Potter**, C.S. Echt, and C.D. Nelson. 2008. Isolation and characterization of microsatellite markers for Carolina hemlock (*Tsuga caroliniana*). *Molecular Ecology Resources*. DOI:10.1111/j.1755-0998.2008.02294.x.

Potter, K.M., W.S. Dvorak, B.S. Crane, V.D. Hipkins, R.M. Jetton, W.A. Whittier, and R. Rhea. 2008. Allozyme variation and recent evolutionary history of eastern hemlock (*Tsuga canadensis*) in the southeastern United States. *New Forests*. 35:131-145. DOI: 10.1007/s11056-007-9067-2.

Josserand, S.A., **K.M. Potter**, G. Johnson, J.A. Bowen, J. Frampton, and C.D. Nelson. 2006. Isolation and characterization of microsatellite markers in Fraser fir (*Abies fraseri*). *Molecular Ecology Notes*. 6:65-68. DOI:10.1111/j.1471-8286.2005.01138.x.

Potter, K.M., F.W. Cabbage, and R.H. Schaberg. 2005. The best landscape predictors of water quality depend on watershed size. *Landscape and Urban Planning*. 71:77-90. DOI:10.1016/j.landurbplan.2004.02.001.

Potter, K.M., F.W. Cabbage, G.B. Blank, and R.H. Schaberg. 2004. A watershed-scale model for predicting nonpoint pollution risk in North Carolina. *Environmental Management*. 34(1):62-74. DOI:10.1007/s00267-004-0117-7.

Professional Publications and Conference Proceedings:

Potter, K.M., W.W. Hargrove, and F.H. Koch. *In press*. Predicting climate change extirpation risk for central and southern Appalachian forest tree species. *Proceedings of the Conference on Ecology and Management of High-Elevation Forests of the Central and Southern Appalachian Mountains*. J. Rentch and E. Heitzman, eds. Snowshoe, West Virginia, May 14-15, 2009. General Technical Report NRS-xxx. Morgantown, West Virginia: USDA Forest Service, Northern Research Station. 1 CD.

Potter, K.M. 2008. From genes to ecosystems: Measuring evolutionary diversity and community structure with Forest Inventory and Analysis (FIA) data. *Proceedings of the 2008 Forest Inventory and Analysis (FIA) Symposium*, Will McWilliams, Gretchen Moisen, and Ray Czaplewski, comps. Park City, Utah, Oct. 21-23, 2008. RMRS-P-56CD. Fort Collins, Colorado: USDA Forest Service, Rocky Mountain Research Station. 1 CD.

Jetton, R.M., W.A. Whittier, W.S. Dvorak and **K.M. Potter**. 2008. Status of *ex situ* conservation efforts for eastern and Carolina hemlock in the southeastern United States. pp. 81-89 in: B. Onken and R. Reardon, eds., *Proceedings of the 4th Symposium on Hemlock Woolly Adelgid*. USDA Forest Service, FHTET-2008-01, Morgantown, WV, 299 p.

Potter, K.M., and J. Frampton. 2005. An *ex situ* gene conservation plan for Fraser fir. *Proceedings of the 28th Southern Forest Tree Improvement Conference*, Steven E. McKeand and Bailian Li, eds. Raleigh, North Carolina, June 21-23, 2005. pp. 148-159.

Potter, K.M., J. Frampton, and J.R. Sidebottom. 2005. Impacts of balsam woolly adelgid on the Southern Appalachian spruce-fir ecosystem and on the North Carolina Christmas tree industry. *Proceedings of the 3rd Symposium on Hemlock Woolly Adelgid in the Eastern United States*, Brad Onken and Richard Reardon, eds. Asheville, North Carolina, Feb. 1, 2005. pp. 25-41.

Potter, K.M., and J. Frampton. 2003. Fraser fir: A natural Christmas tree threatened in its native stands. *American Christmas Tree Journal*. 47(5):22-28.

Potter, K.M., and J. Frampton. 2003. Genetic variation in Fraser fir mortality due to Phytophthora root rot. *Proceedings of the 27th Southern Forest Tree Improvement Conference*, Craig R. McKinley, ed. Stillwater, Oklahoma, June 24-27, 2003. pp. 72-74.

Hess, G.R., S.D. Daley, B.K. Dennison, S.R. Lubkin, R.P. McGuinn, V.Z. Morin, **K.M. Potter**, R.E. Savage, W.G. Shelton, C.M. Snow, and B.M. Wrege. 2001. Just what is sprawl, anyway? *Carolina Planning*. 26(2):11-26.

Government Reports:

Potter, K.M.; B.L.Conkling, editors. *In press*. Forest Health Monitoring 2008 National Technical Report. General Technical Report SRS-xxx. Asheville, North Carolina: U.S. Department of Agriculture, Forest Service, Southern Research Station.

Potter, K.M. *In press*. Introduction. Chapter 1 in K.M. Potter and B.L.Conkling, eds., Forest Health Monitoring 2008 National Technical Report. General Technical Report SRS-xxx. Asheville, North Carolina: U.S. Department of Agriculture, Forest Service, Southern Research Station.

Potter, K.M. *In press*. Evolutionary diversity and phylogenetic community structure of forest trees across the conterminous United States. Chapter 2 in K.M. Potter and B.L.Conkling, eds., Forest Health Monitoring 2008 National Technical Report. General Technical Report SRS-xxx. Asheville, North Carolina: U.S. Department of Agriculture, Forest Service, Southern Research Station.

Potter, K.M.; Koch, F.H. *In press*. Hot spots of insect and disease activity in the conterminous United States and Alaska, 2006. Chapter 5 in K.M. Potter and B.L.Conkling, eds., Forest Health Monitoring 2008 National Technical Report. General Technical Report SRS-xxx. Asheville, North Carolina: U.S. Department of Agriculture, Forest Service, Southern Research Station.

Potter, K.M. *In press*. Large-scale patterns of forest fire occurrence in the conterminous United States and Alaska, 2005-07. Chapter 6 in K.M. Potter and B.L.Conkling, eds., Forest Health Monitoring 2008 National Technical Report. General Technical Report SRS-xxx. Asheville, North Carolina: U.S. Department of Agriculture, Forest Service, Southern Research Station.

Potter, K.M. *In press*. Summary. Chapter 9 in B.L.Conkling, ed., Forest Health Monitoring 2007 National Technical Report. General Technical Report SRS-xxx. Asheville, North Carolina: U.S. Department of Agriculture, Forest Service, Southern Research Station.

Book Review:

Potter, K.M. 2006. Book review: Biological Resources and Migration. *Landscape Ecology*. 21(4):625-626.

Presentations:

Potter, K.M. 2009. "A Case for Incorporating Evolutionary Relationships into Pest Risk Mapping." Third Workshop on Pest Risk Mapping, Pescadero, California, August 11-13, 2009.

Potter, K.M., W.W. Hargrove, and F.H. Koch. 2009. "Assessing the Potential Genetic Impacts of Climate Change to North American Forest Tree Species." 30th Southern Tree Improvement Conference, Blacksburg, Virginia, May 31-June 3, 2009.

Jetton, R.M., W.S. Dvorak, **K.M. Potter,** W.A. Whittier, and R. Rhea. 2009. "Genetic Diversity and Ex Situ Gene Conservation of Eastern and Carolina Hemlocks Threatened by the Hemlock Woolly Adelgid in the Southern Appalachian Mountains." 30th Southern Tree Improvement Conference, Blacksburg, Virginia, May 31-June 3, 2009.

Potter, K.M., W.W. Hargrove, and F.H. Koch. 2009. "Predicting Climate Change Extirpation Risk for Central and Southern Appalachian Forest Tree Species." Conference on Ecology and Management of High-Elevation Forests of the Central and Southern Appalachian Mountains, Snowshoe, West Virginia, May 14-15, 2009.

Potter, K.M., J. Frampton, S.A. Josserand, and C.D. Nelson. 2009. "Evolutionary History and Population Genetics of Fraser Fir and Intermediate Fir, Southern Appalachian Endemic Conifers Imperiled by an Exotic Pest and Climate Change." Conference on Ecology and Management of High-Elevation Forests of the Central and Southern Appalachian Mountains, Snowshoe, West Virginia, May 14-15, 2009.

Potter, K.M. 2009. "Detecting Large-Scale Spatial Hot Spots of Forest Fire Occurrence Using MODIS Satellite Data." USDA Forest Service Forest Health Monitoring 15th Annual Workgroup Meeting, Savannah, Georgia, Feb. 23-27, 2009 (poster).

Potter, K.M. and F.H. Koch. 2008. "From Genes to Ecosystems: Measuring Evolutionary Diversity and Community Structure with FIA Data." 2008 Forest Inventory and Analysis (FIA) Symposium, Park City, Utah, Oct. 23, 2008.

Potter, K.M. 2008. "Forest Community Phylogenetics: Exploring Evolutionary Ecology Across Multiple Spatial Scales." Department of Forestry and Environmental Resources seminar, North Carolina State University, Raleigh, North Carolina, April 14, 2008.

Potter, K.M. 2008. "At the Intersection of Landscape, Genetics and Ecology: Community Phylogenetics and Multiple Scales." 23th Annual Symposium of the United States Regional Chapter of the International Association for Landscape Ecology, Madison, Wisconsin, April 9, 2008.

Potter, K.M. 2008. "Population Genetics and Gene Conservation of Southern Appalachian Hemlocks and Firs." Department of Biological Sciences seminar, East Tennessee State University, Johnson City, Tennessee, Feb. 27, 2008.

Potter, K.M. 2008. "Forest Tree Genotypic Responses to Climate Change." Panelist presentation, Climate Change and Forest Health Focus Group, USDA Forest Service Forest Health Monitoring 14th Annual Workgroup Meeting, San Antonio, Texas, Feb. 13, 2008.

Potter, K.M. and F.H. Koch. 2008. "The Evolutionary History of Forest Tree Communities: A New Tool for Assessing Forest Health." USDA Forest Service Forest Health Monitoring 14th Annual Workgroup Meeting, San Antonio, Texas, Feb. 11-14, 2008 (poster).

Josserand, S.A., B.M. Shamblin, **K.M. Potter**, C.J. Nairn, C.S. Echt, and C.D. Nelson. 2008. "Genomic Markers for Carolina Hemlock, Eastern Hemlock, and Five Other *Tsuga* Species." 4th Symposium on Hemlock Woolly Adelgid, Hartford, Connecticut, Feb. 12-14, 2008 (poster).

Potter, K.M. 2007. "Population Genetics of Fraser Fir, Eastern Hemlock and Carolina Hemlock." Conference of the Partnership for Saving Threatened Forests, Raleigh, North Carolina, November 29, 2007.

Potter, K.M. 2007. "Integrating Landscape Ecology, Genetics and Conservation Biology in the Exploration of Forest Health." Joint meeting of the USDA Forest Service Eastern Forest Environmental Threat Assessment Center and Western Wildland Environmental Threat Assessment Center, Pawley's Island, South Carolina, September 11, 2007.

Potter, K.M., W.S. Dvorak, J. Frampton, R.M. Jetton, W.A. Whittier, and M. Tighe. 2007. "Genetic diversity and conservation of Carolina hemlock (*Tsuga caroliniana*), a rare and threatened southern Appalachian conifer." Botany-Plant Biology Joint Congress, Chicago, Illinois, July 10, 2007.

Potter, K.M., J. Frampton, S. Josserand, and C.D. Nelson. 2006. "The recent evolutionary history of the eastern North American firs (*Abies*): A microsatellite study." Botany 2006 conference, Chico, California, August 1, 2006.

Potter, K.M., S. Josserand, J. Frampton, and C.D. Nelson. 2005. "A microsatellite assessment of genetic diversity and gene flow in Fraser fir (*Abies fraseri*), a Southern Appalachian endemic." Botany 2005 conference, Austin, Texas, August 15, 2005.

Potter, K.M., and J. Frampton. 2005. "An *ex situ* gene conservation plan for Fraser fir." 28th Southern Forest Tree Improvement Conference, Raleigh, North Carolina, June 22, 2005.

Frampton, J., D.M. Benson, J. Li, A.M. Braham, E.E. Hudson, and **K.M. Potter**. 2005. "Seedling resistance to *Phytophthora cinnamomi* in the genus *Abies*." 28th Southern Forest Tree Improvement Conference, Raleigh, North Carolina, June 21, 2005.

Potter, K.M., S. Josserand, J. Frampton, and C.D. Nelson. 2005. "A microsatellite assessment of population architecture and gene flow in Fraser fir." 28th Southern Forest Tree Improvement Conference, Raleigh, North Carolina, June 21, 2005 (poster).

Potter, K.M., J. Frampton, L.K. Potter, and G.R. Hess. 2005. "Fraser Fir Population Size and Pollen Dispersal: A Landscape Genetics Model." 20th Annual Symposium of the United States Regional Chapter of the International Association for Landscape Ecology, Syracuse, New York, March 15, 2005.

Frampton, J., **K.M. Potter**, and J.R. Sidebottom. 2005. "Impacts of Balsam Woolly Adelgid in the Southern Appalachians." 3rd Symposium on Hemlock Woolly Adelgid in the Eastern United States, Asheville, North Carolina, Feb. 1, 2005.

Josserand, S., J.A. Bowen, **K.M. Potter**, J. Frampton, and C.D. Nelson. 2005. "Evaluation of Microsatellite Markers in Fraser Fir (*Abies fraseri*)." 3rd Symposium on Hemlock Woolly Adelgid in the Eastern United States, Asheville, North Carolina, Feb. 1, 2005 (poster).

Potter, K.M., and J. Frampton. 2004. "Modeling Genetic Drift in a Threatened, Long-Lived Forest Tree Species." 2004 Ecological Society of America annual conference, Portland, Oregon, Aug. 4, 2004 (poster).

Potter, K.M., and J. Frampton. 2003. "Phytophthora Root Rot Mortality in Fraser Fir: Genetic Variation in an Infested Progeny Test." Sixth International Christmas Tree Research and Extension Conference, Hendersonville, North Carolina, Sept. 15, 2003.

Potter, K.M., and J. Frampton. 2003. "Genetic Conservation and Evolutionary History of Fraser Fir (*Abies fraseri*)." Sixth International Christmas Tree Research and Extension Conference, Hendersonville, North Carolina, Sept. 16, 2003 (poster).

Potter, K.M., and J. Frampton. 2003. "Genetic Variation in Fraser Fir Mortality Due to Phytophthora Root Rot." 27th Southern Forest Tree Improvement Conference, Stillwater, Oklahoma, June 24, 2003.

Potter, K.M., and F.W. Cabbage. 2003. "Landscape Characteristics and Nonpoint Source Pollution in North Carolina: An Ecological Risk Assessment." 2003 North Carolina Water Resources Research Institute Annual Conference, Raleigh, North Carolina, April 1, 2003.

Potter, K.M. 2002. "Fraser Fir (*Abies fraseri*): A Species Overview." Institute of Forest Biotechnology Heritage Tree Workshop, Research Triangle Park, North Carolina, Dec. 11, 2002.

Potter, K.M., E.O. Sills, K. Jones, and D.N. Wear. 2002. "Assessing Forest Sustainability with Questions and Criteria." 2002 Society of American Foresters national convention, Winston-Salem, North Carolina, Oct. 8, 2002.

Potter, K.M., R.H. Schaberg, and F.W. Cabbage. 2002. "The Structure of North Carolina Stream

Life: A Landscape-Level Ecological Risk Assessment of Nonpoint Source Pollution,” 2002
Ecological Society of America annual conference, Tucson, Arizona, Aug. 5, 2002 (poster).

Popular Publications:

- More than 80 news releases during four years working in North Carolina State University’s News Services office (1997-2001). These releases promoted research advances, technology transfer efforts, and educational programs at the university, and resulted in news stories in major media outlets, including *USA Today*, *The Washington Post*, *U.S. News & World Report*, *The Chronicle of Higher Education*, *Popular Mechanics*, *The Los Angeles Times*, and the *Chicago Tribune*.
- Several dozen bylined stories in *The (Raleigh) News & Observer* during year as staff writer (1996-97), including “The futile war on fire ants” (Oct. 25, 1997), “Stalkers of the Coastal Plain” (about North Carolina’s carnivorous flora, June 30, 1997), and “Hurricane Fran’s latest legacy: Rash of poison ivy” (June 11, 1997).
- Several hundred news stories on Iowa and national politics and public policy while political reporter at the 50,000-circulation *Waterloo/Cedar Falls (Iowa) Courier* newspaper (1994-96). These included stories filed on Iowa General Assembly, the 1996 Iowa presidential caucuses, the 1996 Democratic and Republican national conventions, and the 1994 and 1996 primary and general elections.
- A weekly nonpartisan political analysis column in the *Waterloo/Cedar Falls Courier* (1994-96). These columns described, among other things, behind-the-scenes political wrangling at the Iowa statehouse, the national influence of Iowa’s members of Congress, the activities and prospects of Republican and Democratic presidential candidates in Iowa, and the impact of legislation on the *Courier’s* northeast Iowa readership.

Awards and Honors:

- Namkoong Family Graduate Fellowship for scholarship and ethics in forestry and conservation, North Carolina State University Department of Forestry and Environmental Resources, 2005.
- North Carolina State University Preparing the Professoriate Fellowship, 2004-05.
- Forestry Faculty Fellowship for Excellence in Graduate Education, North Carolina State University Department of Forestry and Environmental Resources, 2004.
- North Carolina Plant Molecular Biology Consortium graduate student travel award, 2004, \$1,000.
- Junius Mebane Andrews and Horace Porter Andrews Graduate Fellowship, awarded by North Carolina State University to a single outstanding beginning doctoral student, 2002.
- Hofmann Forest Graduate Fellowship, awarded by the NC State University College of Natural Resources to outstanding beginning graduate students, 2002.
- Bruce Zobel Award for best student presentation at the 28th Southern Forest Tree Improvement Conference (tie), Raleigh, North Carolina, June 21-23, 2005.
- Bruce Zobel Award for best student presentation at the 27th Southern Forest Tree Improvement Conference, Stillwater, Oklahoma, June 24-27, 2003.
- Xi Sigma Pi forestry honorary society, 2002.

Teaching Experience:

Preparing the Professoriate Fellow: North Carolina State University, 2004-05

- Participated in teaching seminars and discussions, gained two semesters of teaching experience with oversight and evaluation (Teaching mentor: Dr. Gary Blank).

Instructor: Plant Conservation, North Carolina State University, Spring 2005

- Developed and delivered special topics course for upper-level undergraduate students and graduate students, as part of Preparing the Professoriate program.

Teaching Assistant: Environmental Impact Assessment, North Carolina State University, Fall 2004

- Developed and delivered lectures and labs for class segment on water quality management and policy, in addition to teaching assistant responsibilities, as part of Preparing the Professoriate.

Laboratory Instructor: Dendrology, North Carolina State University, Fall 2002, Fall 2004

- Taught field laboratory sections of woody plant biology and identification course required of all undergraduate Forestry majors.

Teaching Assistant: Environmental Impact Assessment, North Carolina State University, Fall 2003

- Lectured on ecological risk assessment and water quality assessment, in addition to teaching assistant responsibilities.

Guest Instructor: Environmental Impact Assessment, North Carolina State University, Fall 2002

- Taught class on ecological risk assessment based on master's degree research.

Guest Instructor: Natural Resource Advocacy, North Carolina State University, Spring 2002

- Taught class on media relations for natural resource professionals.

Guest Instructor: Computers in Natural Resources, North Carolina State University, Fall 1999, Spring 2000, Fall 2000

- Taught lecture and lab on the use and design of high-quality PowerPoint presentations.

Lecturer: Media relations seminar, North Carolina State University, Fall 2001

- Presented talk to staff and faculty members about how to interact with news reporters.

Graduate Student Committees:

George Khan, Department of Forestry and Environmental Resources, North Carolina State University, master of science, in progress.

Amanda Saville, Department of Plant Biology, North Carolina State University, master of science, in progress.

Professional Service:

- Associate Editor and Advisory Board member of journal *New Forests*
- Grant reviewer for USDA Cooperative State Research, Education, and Extension Service (CSREES) National Needs Graduate Fellowship Grants, 2008.
- Grant reviewer for National Science Foundation, Population and Evolutionary Processes Cluster, 2006.
- Peer reviewer for *New Forests*, an international journal of the biology, biotechnology and management of forests, 2005-present.
- Session moderator, Genetics Session: "Molecular Evolution, Ecology and Population Genetics II," Botany 2006 conference, Chico, California, August 1, 2006.

- Session moderator, Genetics Session: “Population, Conservation, and Ecological Genetics,” Botany 2005 conference, Austin, Texas, August 15, 2005.
- Abstract reviewer, 20th Annual Symposium of the United States Regional Chapter of the International Association for Landscape Ecology (US-IALE), March 2005.
- President, Natural Resources Organization of Graduate Students, North Carolina State University College of Natural Resources, Raleigh, North Carolina, April 2003-April 2004.
- Volunteer, working on system to track the effects of fire management, The Nature Conservancy, North Carolina Chapter, Durham, North Carolina, October 2001-May 2002.

Professional Memberships:

Ecological Society of America
International Association for Landscape Ecology, United States Regional Association
Society of American Foresters
Botanical Society of America
Southern Appalachian Botanical Society
American Chestnut Foundation