

CHRISTOPHER MOORMAN  
Department of Forestry and Environmental Resources  
Fisheries and Wildlife Science Program  
Turner House, Box 7646  
Raleigh, NC 27695-7646  
Phone: (919) 515-5578  
E-mail: chris\_moorman@ncsu.edu

## ACADEMIC HISTORY

Present Rank: Associate Professor/Fisheries and Wildlife Sciences Program Coordinator

Areas of Specialization: Effects of forest management, including prescribed fire, on wildlife habitat; habitat selection of non-game wildlife with emphasis on birds; urban wildlife management

### Education

BS, Wildlife Ecology and Management, University of Georgia; December 1992

MS, Wildlife Ecology and Management, University of Georgia; March 1995

PhD, Wildlife Ecology and Management, Clemson University; May 1999

### Employment History

2008-present	Associate Professor/Fisheries and Wildlife Program Coordinator
2005-2008	Associate Professor/Extension Wildlife Specialist, NCSU
1999-2005	Assistant Professor/Extension Wildlife Specialist, NCSU
1995-1999	Graduate Assistant, Clemson University, Dept. of Forest Resources
1995	Research Assistant, Patuxent Wildlife Research Center - UGA
1993-1995	Graduate Assistant, University of Georgia, School of Forest Resources

## PROFESSIONAL ACTIVITIES

### Membership

NC Herpetological Society

Wilson Ornithological Society

Association of Field Ornithologists

The Wildlife Society, Certified Wildlife Biologist (Southeastern Section; NC Chapter)

### Service/Offices Held

The Wildlife Society

- Southeastern Section Representative to the Student Affairs Committee (1996-1997)
- Honorary Membership and Special Recognition Service Awards Committee, (2001-2004); Chair (2002-2003)
- Associate Editor, *Wildlife Society Bulletin* (2002-2004)
- Urban Wildlife Working Group, Member (2005-present); Program Chair (2006); Chair-elect (2008-2009)

North Carolina Chapter, The Wildlife Society

- Conservation and Review Committee, Chair (2000-2001)
- Executive Board (2002-present)
- President (2005-2006)

#### PEER-REVIEWED PUBLICATIONS SINCE 2000

Champlin, T. B., J. C. Kilgo, and C. E. Moorman. *In Press*. Food abundance does not determine bird use of early-successional habitat? *Ecology*.

Champlin, T. B., J. C. Kilgo, M. L. Gumpertz, and C. E. Moorman. *In Press*. Avian response to microclimate in canopy gaps in a bottomland forest. *Southeastern Naturalist*.

Riddle, J. D., C. E. Moorman, and K. H. Pollock. 2008. The importance of habitat shape and landscape context to northern bobwhite populations. *Journal of Wildlife Management* 72:1376-1382.

Riddle, J. D., C. E. Moorman, and K. H. Pollock. 2008. A comparison of methods for estimating northern bobwhite covey detection probabilities. *Journal of Wildlife Management* 72:1437-1442.

Smith, T. A., D. L. Osmond, C. E. Moorman, J. M. Stucky, and J. W. Gilliam. 2008. Effects of vegetation management on bird habitat in riparian buffer zones. *Southeastern Naturalist* 7(2):277-288.

Miller, J. E., G. R. Hess, and C. E. Moorman. 2007. Southern two-lined salamanders in urbanizing watersheds. *Urban Ecosystems*: 10:73-85.

Mason, J., C. Moorman, G. Hess, and K. Sinclair. 2007. Designing suburban greenways to provide habitat for forest-breeding birds. *Landscape and Urban Planning* 80:153-164.

Moorman, C. E., L. T. Bowen, J. C. Kilgo, C. E. Sorenson, J. L. Hanula, S. Horn, and M. D. Ulyshen. 2007. Seasonal diets of insectivorous birds using canopy gaps in a bottomland forest. *Journal of Field Ornithology* 78:11-20.

Bowen, L. T., C. E. Moorman, and J. C. Kilgo. 2007. Seasonal bird use of canopy gaps in a bottomland forest. *The Wilson Journal of Ornithology* 19:77-89.

Ulyshen, M. D., J. L. Hanula, S. Horn, J. C. Kilgo, and C. E. Moorman. 2006. The response of ground beetles (Coleoptera: Carabidae) to selection cutting in a South Carolina bottomland forest. *Biodiversity and Conservation* 15:261-274.

Ulyshen, M. D., J. L. Hanula, S. Horn, J. C. Kilgo, and C. E. Moorman. 2005. Herbivorous insect response to group-selection harvesting in southeastern bottomland hardwood forests. *Environmental Entomology* 34:395-402.

Sinclair, K. E., G. R. Hess, C. E. Moorman, and J. H. Mason. 2005. Mammalian nest predators respond to greenway width, landscape context, and habitat structure. *Landscape and Urban Planning*. 71:277-293.

Ulyshen, M. D., J. L. Hanula, S. Horn, J. C. Kilgo, and C. E. Moorman. 2004. Spatial and temporal patterns of beetles associated with coarse woody debris in managed bottomland hardwood forests. *Forest Ecology and Management* 199:259-272.

Vandermaast, D. B., C. E. Moorman, K. R. Russell, and D. H. Van Lear. 2004. Effects of prescribed fire on herbaceous groundcover and advanced regeneration in upland hardwood forests. *Natural Areas Journal* 24:216-222.

Kilgo, J. C., and C. E. Moorman. 2004. Patterns of cowbird parasitism in the South Atlantic Coastal Plain and Piedmont. *Wilson Bulletin* 115:277-284.

Moorman, C. E., D. C. Guynn, and J. C. Kilgo. 2002. Hooded warbler nesting success adjacent to group-selection and clearcut edges in a southeastern bottomland forest. *The Condor* 104:366-377.

Moorman, C. E., and D. C. Guynn. 2001. Effects of group-selection opening size on breeding bird habitat use in a bottomland forest. *Ecological Applications* 11:1680-1691.

Moorman, C. E. 2000. Designing and presenting avian research to facilitate integration with management. *Studies in Avian Biology* 21:109-114.

#### SELECTED PRESENTATIONS (from over 400 research and extension presentations)

##### Research

- Relationships between artificially-created gaps and breeding bird communities in bottomland forests. 4th Annual Conference of The Wildlife Society, Snowmass, CO.
- Effects of edge on hooded warbler reproductive success in a South Carolina bottomland forest. 6th Annual Conference of The Wildlife Society, Austin, TX.
- Prescribed fire on non-industrial private forestlands: implications for non-game wildlife. 7th Annual Conference of The Wildlife Society, Nashville, TN.
- Do urban greenways provide high quality bird habitat? Southeast Partners in Flight Annual Meeting, McAllen, TX

##### Extension

- Sustainable forestry: a wildlifer's perspective. *Forest Issues Forum* Teleconference. North Carolina State University, Raleigh, NC (45 people).
- Ecological role of streamside habitats in the landscape: a focus on birds. *Protecting and Maintaining Freshwater Ecosystems in North Carolina*, Catawba College, Salisbury (50 people)
- Managing for nongame wildlife. *Master Wildlifer 2003* Satellite Series, Clemson University, Clemson, SC (over 4,000 registrants)

## SELECTED EXTENSION PUBLICATIONS (from over 45 popular and web-based pubs)

- C. E. Moorman, and R. A. Hamilton. 2000. Developing Wildlife Friendly Pine Plantations. North Carolina Cooperative Extension Service, Woodland Owner Note #38.
- Moorman, C., M. Johns, L. T. Bowen, and others. 2002. Landscaping for Wildlife with Native Plants. NC Cooperative Extension Service AG-636-3. 12 pp.
- Moorman, C. E. 2002. Burnin' for Wildlife. Forest Landowner 61(3):5-9.
- Moorman, C. E. 2003. Think American: Manage Native Plants for Wildlife. Forest Landowner 62(3):5-9.

## TEACHING

### Courses taught

Urban Wildlife Management (FW 403), 2002-2007, periodically

Forest Wildlife (FOR 264), Summer Camp, every year

Fisheries and Wildlife Sciences Seminar (FW 802) – periodically

Forest Wildlife Management (FW 404) – fall semester, every year

### Graduate Student Advisees

Jamie R. Hull, MS, 2003 (co-directed with George Hess) – Can Urban Greenways Provide High Quality Avian Habitat?

Kristen E. Novotny, MS, 2004 (co-directed with George Hess) – Mammalian Nest Predators Respond to Greenway Width, Habitat Structure, and Landscape Context

Liessa T. Bowen, PhD, 2004 – Seasonal Relationship Between Birds and Arthropods in Bottomland Forest Canopy Gaps

Jennifer E. Miller, MS, 2005 (co-directed with George Hess) – Impervious Surface Cover: Effects on Stream Salamander Abundance and a New Method of Classification Using Feature Analyst

Tracey B. Champlin, MS, 2007 – Do Food Availability and Microclimate Determine Bird Use of Forest Canopy Gaps?

Salina M. Kohut, MS, 2007 (co-directed with George Hess) – Avian Use of Suburban Greenways as Stopover Habitat

Jason D. Riddle, PhD, 2007 – Maximizing the Impact of Field Borders for Northern Bobwhite and Early-Succession Songbirds

Charlotte E. Matthews, MS, 2008 – Response of Herpetofaunal Populations to Prescribed Fire and Mechanical Fuel Reduction in the Southern Appalachians

Matthew A. Potter, MS (co-directed with George Hess) – Snake Ecology in Suburban Greenways

Corey S. Shake, MS – Effects of Buffer Width, Patch Size and Shape, and Landscape Context on Bird Communities and Nest Success in Conservation Reserve Enhancement Program (CREP) Forested Riparian Buffers

Amelia L. Savage, MS – Foraging Habits of Swainson's Warbler in a Managed Forest Landscape

Chris R. Ayers, MS (co-directed with Chris DePerno) – Longevity of FlightControl PLUS Goose Repellency Following Two Mowing Regimes

Kate E. Golden, MS (co-directed with Chris DePerno) – Fee-hunting and Wildlife Management

Activities by Non-industrial Private Landowners in North Carolina

Jimmy W. Dodson, MS – Managing Old-field Plant Communities for Wildlife

Liz Rutledge, Ph.D. (co-directed with Chris DePerno) - Non-migratory Canada Goose Movement  
Around Piedmont Triad International Airport

Stephen Allen, M.S. (co-directed with Susan Moore) - Conservation Design Implementation Survey

Amy Raybuck, M.S. (co-directed with Chris DePerno) - Small Mammal and Herpetofauna Response  
to Oak Regeneration Treatments in the Southern Appalachian Mountains

Justin McVey, M.S. - Food Habits of Co-occurring Coyote and Red Wolf

Ryan Klimstra, M.S. - Bird and Small Mammal Use of Native Warm-season and Exotic Cool-season  
Grass Fields

Charlie Plush, M.S. – Comparing Wildlife Habitat Value of Planted and Fallow Field Borders on an  
Organic Farm