

CURRICULUM VITAE

James A. Cox
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EDUCATION

M. Sc., Florida State University, 1983. Major Professor: Dr. Frances James. Study areas: avian ecology and evolution. Supported by Josephine and Melvin Herz Fellowship (1982) and Frank M. Chapman Award (1981). Thesis project: *Chromosomal variation in the North American Icteridae.*

B.A., Florida State University, 1978. Majors in English and history; minor in biology.

RESEARCH INTERESTS

I focus primarily on developing a better understanding of the conservation and management needs of several declining species of birds associated with southern pine forests. Current projects include long-term studies of Red-cockaded Woodpecker, Brown-headed Nuthatch, and Bachman's, Grasshopper, and Henslow's Sparrows. I also conduct field experiments designed to assess the ecological and social conditions that affect cooperative breeding behavior in the Brown-headed Nuthatch. Studies of changes in vertebrate communities that take place as a result of succession and management activities are also a key interest, particularly the use of prescribed fire. Other efforts focus on developing of habitat conservation and management recommendations for rare species. One such set of recommendations (Cox et al. 1994) helped to guide ecoregion planning for *The Nature Conservancy* and was featured in *Science* (269:318-320).

AWARDS

Herbert W. Kale, II Award. 2011. Florida Chapter of the Wildlife Society recognizing contributions to conservation of Florida's wildlife and natural resources.

Edwards Prize. 2008. Wilson Ornithological Society for "best" paper in the journal in 2007.

Research Investigation Award. 1997. Partners in Flight Program. 1997. National Fish and Wildlife Foundation and *Birder's World* (in recognition of Cox et al. 1994).

Osprey Award. 1998. Florida Sierra Club (in recognition of Cox et al. 1994).

TECHNICAL PUBLICATIONS

Han, K, RT Kimball, and JA Cox. 2018. Testing hypotheses driving genetic structure in the cooperatively breeding Brown-headed Nuthatch *Sitta pusilla*. *Ibis* ([link](#))

Cusick, JA., M de Villa, EH DuVal, and J.A. Cox. 2018. How do helpers help? Helper contributions

- throughout the nesting cycle in the cooperatively breeding Brown-headed Nuthatch. *Behavioral Ecology and Sociobiology* 72(3) ([link](#))
- Radzio, TA., JA Cox, and MP O'Connor. 2017. Behavior and conspecific interactions of nesting Gopher Tortoises (*Gopherus polyphemus*). *Herpetological Conservation and Biology* 12: 373-383 ([link](#)).
- Radzio, TA., JA Cox, and MP O'Connor. 2017. Hatching success and other reproductive attributes of gopher tortoises in southwest Georgia. *Chelonian Conservation and Biology* 16:1-3-105 ([link](#))
- Radzio, TA., JA Cox, JR Spotila, and MP O'Connor. 2016. Aggression, combat, and apparent burrow competition in hatchling and juvenile gopher tortoises (*Gopherus polyphemus*). *Chelonian Conservation and Biology* 15: 231-237 ([link](#))
- Cox, JA and JK McCormick. 2016. New insights from an attempt to reintroduce Red-cockaded Woodpeckers in northern Florida. *Journal of Field Ornithology* 87:360–370. doi:10.1111/jof.12165.
- Gray, M M, EW Schunke, and JA Cox. 2015. Tool usage by juvenile *Sitta pusilla* (Brown-headed Nuthatch). *Southeastern Naturalist* 15(2):N12-N16 ([link](#)).
- Han, K, JA Cox, and R Kimball. 2015. Uncommon levels of relatedness and parentage in a cooperatively breeding bird, the Brown-headed Nuthatch (*Sitta pusilla*). *Wilson Journal of Ornithology* 127(4):593-600.
- Cerame, B., JA Cox, RT Brumfield, JW Tucker, and SS Taylor. 2014. Adaptation to ephemeral habitat may overcome natural barriers and severe habitat fragmentation in a fire-dependent species, the Bachman's Sparrow (*Peucaea aestivalis*). *PloS One*, 9(9), e105782 ([link](#)).
- Jones, CD, JA Cox, and RJ Cooper. 2014. Bachman's Sparrow (*Peucaea aestivalis*) response to variation in the extent of burns conducted during the nesting season. *Avian Conservation and Ecology* 9: 3 ([link](#)).
- Cox, JA, CJ Jones, JW Tucker, and GF Budney. 2014. An unusual song-like vocalization produced by female Bachman's sparrows (*Peucaea aestivalis*). *Southeastern Naturalist* 13: N9-N12.
- Jones, CJ, JA Cox, E Toriani-Moura, and RJ Cooper. 2013. Bachman's Sparrow nest-site characteristics and their relationship to plant succession following prescribed burns. *Wilson Journal of Ornithology* 125:293–300.
- Cox, JA 2012. Social grooming in the Brown-headed Nuthatch may have expanded functions. *Southeastern Naturalist* 11:771-774.
- Cox, JA, LA Scopel, and MR Klostermann. 2012. Brown-headed Nuthatch occupancy in central Florida and its relation to forest type, forest structure, and the presence of Red-cockaded Woodpeckers. *Condor* 114:622-628.
- Cox, JA. 2012. American Swallow-tailed Kite takes a Brown-headed Nuthatch. *Florida Field Naturalist* 40: 56.

- Pipher, E and JA Cox. 2011. First record of Bachman's Sparrow (*Peucaea aestivalis*) feeding on a vertebrate. *Florida Field Naturalist* 39: 16-18.
- Sirman, A and JA Cox. 2010. The effects of breeding status on singing frequency in Bachman's Sparrow. *Oriole* 75:1-6.
- Cox, JA 2010. Red-cockaded Woodpecker conservation in the Red Hills region of southwest Georgia. *Oriole* 75:14 (abstract).
- Cox, JA and C Jones. 2010. Estimating survival probabilities for male Bachman's Sparrows using plot-based mark-resighting, off-plot surveys and multi-strata models. *Condor* 112:663-669.
- Haas, S, JA Cox, R Kimball, and J Smith. 2010. Fine-scale spatial genetic structure in the cooperatively breeding Brown-headed Nuthatch (*Sitta pusilla*). *Southeastern Naturalist* 9:743-756.
- Cox, JA, C Jones, and T Terhune. 2009. Randomized target netting: field methods for conducting mark-recapture studies on focal species. *North American Bird Bander* 34:165-170.
- Cox, JA and C Jones. 2009. Influence of prescribed fire on winter abundance of Bachman's Sparrow. *Wilson Journal of Ornithology* 121: 359-365.
- Cox, JA, and C Jones. 2009. Effects of lightning-season burning on Bachman's Sparrow, a declining pineland species. Final report. Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida, USA. (on-line at: <http://research.myfwc.com/publications/>).
- Cox, JA and B Widener. 2008. Lightning-season burning: friend or foe of breeding birds? Miscellaneous Publication 17, Tall Timbers Research Station, Tallahassee, FL.
- Jones, C. and JA Cox. 2007. Field procedures for netting Bachman's Sparrows. *North American Bird Bander*. 32:114-117.
- Cox, JA and C Jones. 2007. Home range and survival characteristics of male Bachman's Sparrows in an old-growth forest managed with breeding season burns. *Journal of Field Ornithology* 78:263-269.
- Cox, JA and CC NeSmith. 2007. Acadian Flycatcher caught in the web of a golden-orb weaver. *Florida Field Naturalist* 24:2-4.
- Cox, JA, and G Slater. 2007. Cooperative breeding in the Brown-headed Nuthatch. *Wilson Journal of Ornithology* 119:1-8.
- Cox, JA. 2007. The Breeding Birds of Florida. *Florida Ornithological Society Special Publication* 7: 36-114.
- Masters, RE, K Robertson, W Palmer, JA Cox, K McGorty, L Green, and C Ambrose. 2007. Red Hills Stewardship Guide. Miscellaneous Publication No. 12, Tall Timbers Research Station & Land Conservancy, Tallahassee, FL.
- Barrow, WC, L Randall, M Woodrey, JA Cox, E Inzunza, C Riley, and C Eberly. 2006. Coastal forests of the Gulf of Mexico: a description and thoughts on their conservation. *Proceedings of the Partners*

in Flight Conference, Asilomar, California.

- Masters, RE, K Hitch, WJ Platt, and JA Cox. 2005. Fire – The missing ingredient for natural regeneration and management of southern pines. *Proceedings of the Joint Conference, Society of American Foresters and Canadian Institute of Forestry*, Edmonton, Alberta, Canada. October 2-6, 2004. CD-ROM unpagged.
- Cox, JA. 2004. Population declines and generation lengths can bias estimates of vulnerability. *Wildlife Society Bulletin* 32:979-982.
- Cox, JA, and S. Roth. 2004. Use of recorded vocalizations in winter surveys of Bachman's Sparrow. *Journal of Field Ornithology* 75:359-363
- Cox, JA, and RT Engstrom. 2004. Comparison of federal foraging guidelines to mature timber stands in the Red Hills region. Pp. 567-576 in R. Costa and S. Daniels (eds.). Red-cockaded Woodpecker: Road to Recovery. *Red-cockaded Woodpecker Symposium IV*. Hancock House Publishers, Blain, WA.
- Hagan, G, RT Engstrom, JA Cox, and P Spivey. 2004. Effects of translocation on a large Red-cockaded Woodpecker population. Pp. 320-324 in R. Costa and S. Daniels (eds.). Red-cockaded Woodpecker: Road to Recovery. *Red-cockaded Woodpecker Symposium IV*. Hancock House Publishers, Blain, WA.
- Cox, JA. 2004. Endangered and Threatened Animals of Florida and their Habitats (book review). *Quarterly Review of Biology* 80: 126-127
- Cox, JA and P Spivey. 2003. Adoption in the Red-cockaded Woodpecker. *Wilson Bulletin* 115(3):338-340.
- Cox, JA. 2003. Saving migrant birds. Developing strategies for the future. Book review. *Florida Field Naturalist* 31:30-32.
- Masters, R, K Robertson, B Palmer, JA Cox, K McGorty, L Green, and C Ambrose. 2003. Red Hills forest stewardship guide. *Miscellaneous Publication No. 12*. Tall Timbers Research Station, Tallahassee, Fl. 78p.
- Cox, JA., RT Engstrom, A Paul, E Stolen, and E Stoccardo. 2002. Florida's new method of evaluating rare species with an emphasis on the proposed reclassification of the Red-cockaded Woodpecker. *Florida Field Naturalist* 22:127-148.
- Cox, JA. 2001. Identification of potential habitat for the Red-cockaded Woodpecker using Landsat TM data. *Proc. Annu. Conf. Southeast. Assoc. Fish and Wildl. Agencies* 55:534-546.
- Cox, JA, W Baker, and RT Engstrom. 2001. Red-cockaded Woodpeckers in the Red Hills region: a GIS-based assessment. *Wildlife Society Bulletin* 29:1278-1288.
- Cox, JA, and RT Engstrom. 2001. Influence of the spatial pattern of conserved lands on the persistence of a large population of Red-cockaded Woodpeckers. *Biological Conservation* 100:137-150.
- Kautz, R, and JA Cox. 2001. Strategic habitats for biodiversity conservation in Florida. *Conservation*

Biology 15:55-77.

- Cox, JA, T Quinn, and H Boyter. 1997. The role of the Florida Game and Fresh Water Fish Commission in the management of non-indigenous species. Pp. 123-156 in D Simberloff and D Schmitz (eds.). *Strangers in Paradise. Exotic Species Management in Florida*. Island Press, Chicago.
- Cox, JA. 1996. American Redstart. Pp. 145-150 in J. Rodgers (ed.). *Rare and Endangered Biota of Florida. Vol III. Birds*. University Presses of Florida. Gainesville, Florida.
- Cox, JA. 1996. Louisiana Waterthrush. Pp. 150-156 in J. Rodgers (ed.). *Rare and Endangered Biota of Florida. Vol III. Birds*. University Presses of Florida. Gainesville, Florida.
- Cox, JA. 1996. Painted Bunting. Pp. 169-172 in J. Rodgers (ed.). *Rare and Endangered Biota of Florida. Vol III. Birds*. University Presses of Florida. Gainesville, Florida.
- Cox, JA. 1996. Worm-eating Warbler. Pp. 157-163 in J. Rodgers (ed.). *Rare and Endangered Biota of Florida. Vol III. Birds*. University Presses of Florida. Gainesville, Florida.
- Cox, JA, WW Baker, and D Wood. 1995. Status, distribution, and conservation of the red-cockaded woodpecker in Florida: a 1992 update. Pp 457-464 in D. Kulhavy, D., R. Hooper, and R. Costa (eds.). *Red-cockaded Woodpecker: Recovery, Ecology, and Management*. Center for Applied Studies, Stephen F. Austin State University, Nacogdoches, Texas.
- Maehr, D., and JA Cox. 1995. Landscape features and panthers in Florida. *Conservation Biology* 9:1008-1019.
- Cox, JA. 1994. Relationships between land cover and the abundance of breeding birds recorded along Florida's breeding bird surveys. *Proc. Annu. Conf. Southeast. Assoc. Fish and Wildl. Agencies* 48:286-294.
- Cox, JA, R Kautz, M MacLaughlin, and T Gilbert. 1994. *Closing the Gaps in Florida's Wildlife Habitat Conservation System*. Technical Report. Florida Game and Fresh Water Fish Commission, Tallahassee, Florida. 276 pp.
- Wooding, J., J. Cox, and M. Pelton. 1994. Distribution of black bears in the southeastern coastal plain. *Proc. Annu. Conf. Southeast. Assoc. Fish and Wildl. Agencies* 48:270-275.
- Kautz, R., J. Cox, M. MacLaughlin, and J. Stys. 1994. Mapping wetland habitats of high priority to endangered and threatened species in Florida. Final Project Report. U.S. Environmental Protection Agency. Atlanta, Georgia. 25 pp. + 34 figs.
- Cox, J. 1992. A cross-tabulation of land-cover types by conservation areas in Florida. *Florida Field Naturalist* 21:16-17.
- Simberloff, D, J Farr, JA Cox, and D Mehlman. 1992. Movement corridors: conservation bargains or poor investments. *Conservation Biology* 6:15-22.
- Cox, JA 1991. Landscape correlates of Wood Stork (*Mycteria americana*) productivity in Florida. *Colonial Waterbirds* 14:121-126.

- Cox, JA. 1990. An evaluation of the sensitivity of breeding bird surveys using a stochastic simulation model. Pp. 112-117 in J.R. Sauer and S. Droege,(eds.). *Survey Designs and Statistical Methods for the Estimation of Avian Population Trends*. U.S. Fish and Wildlife Serv., Biol. Rep. 90(1). 225 pp.
- Cox, JA. 1989. Viability estimates for small gopher tortoise populations. *Proc. Annu. Gopher Tortoise Council Meeting* 4:76-89.
- Cox, JA. 1989. Survival characteristics of small gopher tortoise populations and their possible influence on relocation success. Pp. 7-14 in J.E. Diemer, D.R. Jackson, J.L. Landers, L.N. Layne, and D.W. Wood (eds.). *Gopher Tortoise Relocation Symposium Proceedings*. Florida Game and Fresh Water Fish Commission, Nongame Wildlife Program Technical Report #5. 109 pp.
- Burke, R, and JA Cox. 1988. Evaluation and review of field techniques used to study and manage gopher tortoises. Pp. 205-215 in R.C. Szaro, K.E. Severson, and D.R. Patton (technical coordinators). *Management of Amphibians, Reptiles, and Small Mammals in North America*. U.S.D.A. Forest Service General Tech. Rep. RM-166.
- Cox, JA. 1988. The influence of forest size on transient and resident birds occupying the maritime hammocks of northeastern Florida. *Florida Field Naturalist* 17:25-34.
- Cox, JA. 1987. The breeding bird survey in Florida: 1969-1983. *Florida Field Naturalist* 16:25-37.
- Cox, JA, D Inkley, and R Kautz. 1987. Ecology and habitat protection needs of gopher tortoise (*Gopherus polyphemus*) populations found on lands slated for large-scale development in Florida. *Nongame Wildlife Program Technical Report No. 4*. Tallahassee, FL. 75 pp.
- Simberloff, D, and JA Cox. 1987. Costs and consequences of conservation corridors. *Conservation Biology* 1:63-71
- NeSmith, CA, and JA Cox. 1985. Red-winged Blackbird nest usurpation by rice rats in Florida. *Florida Field Naturalist* 13:35-36.
- Cox, JA, and FC James. 1984. Chromosomal uniformity in the red-winged blackbird. *Condor* 86:416-422.
- NeSmith, CC., and JA Cox. 1984. Winter bird study 109: longleaf pine forest. *American Birds* 37:63.

POPULAR ARTICLES

- Cox, J., J. Cusick, and E. DuVal. 2016. *Sex in the Sitta*. *Birding Magazine* 40(3):38-45.
- Cox, J. 2010. Longleaf forests and birds. *The Yellowhammer* (winter): 14. Newsletter of the Alabama Ornithological Society.
- Cox, J., and C. Jones. 2008. *Bachman's Sparrow and the Order of the Phoenix*. *Birding Magazine* 40(3):38-45.
- Cox, J. 2006. Rolling out the red carpet for Red-cockaded Woodpeckers. *LandViews Magazine*. Feb. 2006. Pp. 19-21.
- Cox, J. 2005. The social world of nuthatches. *Interpretive Birding* 5 (on-line magazine)

- Cox, J. 2004. Fat chance, slim chance, big chance, no chance: the lovely art of caprice. In S. Cerulean and J. Raye (eds). *Between Two Rivers*. Red Hills Writer's Group, Tallahassee, FL ([link](#))
- Cox, J. 2004. Christmas Bird Count: a lifetime of memorable experiences. *Florida Naturalist*, Winter 2003, p. 16.
- Cox, J. 2002. Four essays appearing in *The Great Florida Birding Trail*, Florida Fish and Wildlife Conservation Commission.
- Cox, J. 1997. Welcome back songbirds. *Florida Wildlife Magazine* 51: 20-21.
- Cox, J. 1997. Gaps in conservation. *Florida Naturalist* 33:12-13.
- Cox, J. 1996. Florida's rainbow bird in decline. *Florida Naturalist* 32:12-15.
- Cox, J. 1996. Project BuntingWatch. *Florida Wildlife Magazine* 51:14-17.
- Cox, J. 1995. Way stations for migrants. *Florida Wildlife Magazine* 49:2-5.
- Cox, J. 1994. Wither ecosystem management? *Environmental News*, Florida Dept. Environmental Protection 6:2-5.
- Cox, J. 1994. Solving the mysteries of migratory birds. The Nature Conservancy, Florida Chapter Newsletter. Fall 1994.
- Cox, J. 1991. Delicate Balance: White-crowned Pigeon. *Florida Wildlife Magazine* 45:29.
- Cox, J. 1990. Florida's freshwater turtles. *Skimmer* 6:1-8.
- Cox, J. 1990. Floridana -- Roseate Spoonbill. *Florida Wildlife Magazine* 43:30.
- Cox, J. 1990. Floridana -- Yellow-crowned Nightheron. *Florida Wildlife Magazine* 43:30.
- Cox, J. 1989. Basics of birdwatching (two part series). *Florida Wildlife Magazine* 43:24-28; 43:20-26 ([link](#)).
- Cox, J. 1988. Delicate balance -- Snail Kite. *Florida Wildlife Magazine* 42:30.
- Cox, J. 1988. *Floridana* -- the Great Horned Owl. *Florida Wildlife Magazine* 42:30.
- Cox, J. 1985. Florida's birds declining -- study warns. *Skimmer* 2:1-5
- Cox, J. 1985. Fall migration. Don't miss It. *Skimmer* 2:1-8.
- Cox, J. 1985. Pitcher Plants: bug busters of Florida's boglands. *Skimmer* 2:8.
- Cox, J. 1985. Florida's Orchids. *Skimmer* 3:1-8.
- Cox, J. 1984. Sex and the sailfin molly. *Skimmer* 1:6.

A series of regular articles also appeared in the *Tallahassee Democrat* (available [here](#))

ACADEMIC APPOINTMENTS

Associated Scientist/Scholar Florida State University

PROFESSIONAL MEMBERSHIPS

American Birding Association	Society for Conservation Biology
Cooper Ornithological Society	Society of Field Ornithologists
Florida Historical Society	Wilson Ornithological Society
Florida Ornithological Society	Eastern Bird Banding Association

PROFESSIONAL ACTIVITIES

President, *Florida Ornithological Society* (2018-present)
 Associated Editor, *Condor Ornithological Applications* (2014-present)
 Membership co-Chair, *Florida Ornithological Society* (2011- 2018)
 Board Member, *Apalachee Audubon Society* (2012-2016)

Secretary, *Florida Ornithological Society* (2007- 2010)
 Conservation Committee Chair, *Florida Ornithological Society* (2000-2005)
 Peer reviews provided regularly for *Auk*, *Biological Conservation*, *Conservation Biology*, *Florida Field Naturalist*, *Journal of Applied Ecology*, *Journal of Field Ornithology*, *Journal of Forest Ecology*, *Journal of Wildlife Management*, *Wildlife Society Bulletin*, and *Wilson Bulletin*.
 Co-Compiler, St. Marks Christmas Bird Count (1988-2015).
 President, *Florida Ornithological Society* (1999-2001)
 Board Member, St. Marks Refuge Association (1997-2001)
 Nominating Committee Chair, *Florida Ornithological Society* (1994-1997; 2005-07)
 Board Member, *Florida Ornithological Society* (1994-95)
 Monitor Working Group, *Partners in Flight Program*, U.S. Fish and Wildlife Service
 Regional Compiler, Field Observations, *Florida Ornithological Society* (1993-1996).
 State Compiler, Field Observations, *Florida Ornithological Society* (1990-1993)
 Advisory Board, *Florida Ornithological Society*, Breeding Bird Atlas Project (1986-1990).
 Executive Board Member, Florida Chapter of *The Wildlife Society* (1987-1989).
 Region 3 Coordinator, Florida's Breeding Bird Atlas Project (1985-1990) covering a 7 county area).

GRANTS >\$5,000

National Fish and Wildlife Foundation (2017)	\$120,000
Georgia Department of Natural Resources (2015)	\$11,000
Georgia Ornithological Society (2014)	\$18,000
Georgia Department of Natural Resources (2014)	\$10,500
Georgia Ornithological Society (2014)	\$18,600
U.S. Fish and Wildlife Service (2013)	\$26,600
U.S. Fish and Wildlife Service (2009)	\$200,000
Georgia Ornithological Society (2008)	\$32,000
Georgia Department of Natural Resources (2008)	\$8,700
<i>Private Lands Stewardship</i> , U.S. Fish and Wildlife Service (2007)	\$44,350
Nongame Program, Florida Fish and Wildlife Commission (2006)	\$66,800
<i>Private Lands Stewardship</i> , U.S. Fish and Wildlife Service (2006)	\$46,000
Statewide Wildlife Grant, Florida Fish and Wildlife Commission (2005)	\$42,000
Power of Flight Program, National Fish and Wildlife Foundation (2005)	\$38,000
<i>Private Lands Stewardship</i> , U.S. Fish and Wildlife Service (2005)	\$77,500
Environmental Defense Fund (2005)	\$50,000
<i>Power of Flight Program</i> , National Fish and Wildlife Foundation (2004)	\$42,500
<i>Private Lands Stewardship</i> , U.S. Fish and Wildlife Service (2004)	\$97,500

Since 2014, other fundraising efforts have brought in \geq \$25,000 annually.