

CURRICULUM VITAE

Reed Bowman, Ph.D.

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EDUCATION

B.A. (1980) State University of New York (Eng. Lit, minor Env. Sci./Wildl. Mgt.)
 M.S. (1985) McGill University (Wildlife Biology)
 Ph.D. (1992) University of South Florida (Biology)

PROFESSIONAL EXPERIENCE

Associate Research Biologist, Avian Ecology Lab Head, Archbold Biological Station, Lake Placid, FL; 2000-present.
 Assistant Research Biologist, Archbold Biological Station, Lake Placid, FL; 1994-1999.
 Post-doctoral Research Associate, Archbold Biological Station, Lake Placid, FL; 1992-1994.
 Adjunct Graduate Faculty, University of Central Florida, Orlando, FL; 2004-present.
 Adjunct Graduate Faculty, University of Memphis, Memphis, TN; 2003-present.
 Adjunct Graduate Faculty, University of South Florida, Tampa, FL; 1994-present.
 Research Biologist, National Audubon Society, Tavernier, FL; July 1986-1989.
 Research Technician, Dept. of Wildl. and Range Sci., Univ. of Florida, Gainesville, FL; 1986.
 Biological Technician, Bureau of Land Mgmt., Boise, ID; 1985.
 Research Assistant, Macdonald Raptor Research Ctr., McGill Univ. Montreal, Quebec; 1982-1984.

TEACHING EXPERIENCE

Instructor, South Florida Community College: Ornithology, Bird Study, 1998-present.
 Invited Lecturer, Univ. of South Florida: Vertebrate Zoology, Ornithology, Environment, Organic Evolution; 1993-1995.
 Graduate Teaching Assistant, Univ. of South Florida: Ecology, Zoology, Animal Embryology, 1988-1991.
 Graduate Teaching Assistant, Macdonald College of McGill Univ.: Natural History of Vertebrates, Wildlife Management, 1982-1984.

GRADUATE STUDENT ADVISING

Major Advisor

Angela Tringali, Ph.D. Candidate. University of Central Florida. What is the function of UV-plumage in Florida Scrub-Jays.
 Joe Neiderhauser, M.S. Candidate. University of Central Florida. Variation in avian nestling survival across an urban gradient.
 Robert Aldredge. M.S. 2008. University of Central Florida. Hatching asynchrony occurs as a byproduct of maintaining egg viability in the Florida Scrub-Jay.
 Michelle Dent. M.S. 2008. Antioch New England Graduate School. Variation in survival and behavior of post-fledging Florida Scrub-Jays along an urban gradient.
 Annette Sauter, Ph.D. 2005. University of Zurich. Shall we feed suburban Florida Scrub-Jays (*Aphelocoma coerulescens*)? The importance of human-provided foods on parental food choice, and nestling growth and survival.
 Sonya LeClair. M.S. 2005. University of South Florida. Comparison of hatching failure in a wildland and suburban population of the Florida Scrub-Jay (*Aphelocoma coerulescens*): Are demographic differences or human disturbance to blame?

Matthew D. Shawkey, M.S. 2001, University of South Florida. Proximate causes of brood reduction in Florida Scrub-Jays.

Arthur L. Fleischer, Jr., M.S. 2000, University of South Florida. The influence of time budget and rate of food handling and consumption on the timing of breeding of female Florida Scrub-Jays in suburban and wildland habitats.

Committee Member

Marianne Korosy, Ph.D. Candidate, University of Central Florida. Winter ecology of Florida Grasshopper Sparrows. Advisor, Dr. Reed Noss

Dara Wald, Ph.D. Candidate, University of Florida. Socioeconomics of feral cats in Florida. Advisor, Dr. Susan Jacobson.

Jill Richardson, MS 2009. University of Central Florida. Factors influencing territory size if Florida Grasshopper Sparrows.

Raoul J. Boughton, Ph.D. 2007. University of Memphis. Stress, immune function, and reproduction in the cooperatively breeding Florida Scrub-Jay. Advisor, Dr. Stephen J. Schoech.

Kim L. Brand, MS 2001, University of South Florida. Body mass variation in breeding Florida Scrub-Jays. Advisor, Dr. Glen E. Woolfenden.

Tina L. Fleischer, MS 2000, University of South Florida. Reactions of Florida Scrub-Jays to eggs and shams added to their nests. Advisor, Dr. Glen E. Woolfenden.

William J. Keating, MS 1999, University of South Florida. Nocturnal roosting behavior of the Florida Scrub-Jay. Advisor, Dr. Glen E. Woolfenden.

Lee M. Walton, MS 1997, Villanova University. Florida Scrub-Jays nest-site selectivity in unfragmented, periodically burned vs. fragmented, overgrown habitats. Advisor, Dr. Robert L. Curry.

GRANTS AND CONTRACTS RECEIVED

Florida Fish and Wildlife Conservation Commission. (2009-2010). Statewide assessment of Florida Scrub-Jay populations on managed areas. \$8,650 (co-PI with R. K. Boughton).

Morris Animal Foundation (2009-2011). Land use change, population declines, and disease co-escalate extinction risk of Florida Scrub-Jays. Fellowship Grant \$100,000 (co-PI with Raoul K. Boughton).

National Science Foundation (2008-2009). Episodic disease and host population dynamics: Immediate response to emerging epidemic in a well-studied organism. SGER Grant \$50,000 (PI with J.W. Fitzpatrick, A. Clark, and R. Boughton)

Department of Defense (2006-2011). Demography and trends of populations of Florida scrub-jay, red-cockaded woodpecker, and Florida grasshopper sparrows at Avon Park Air Force Range. \$1,725,999. PI.

United States Fish and Wildlife Service (2005-2006). Assessing the impacts of hurricanes to the Florida Scrub-Jay. \$45,000. PI.

United States Fish and Wildlife Service (2005-2007). Assessing sources of variation in Florida Grasshopper Sparrow distribution and habitat at three core populations. \$84,600. (PI with J. Tucker).

United States Fish and Wildlife Service (2004-2006). An internet-based citizen-science monitoring program for Florida scrub-jays throughout their range. \$114,924. PI.

National Science Foundation (2004-2007). Interactive effects of stress and nutrition on reproduction in birds. \$425,923. (Co-PI with S. J. Schoech).

National Science Foundation (2003-2006). Unifying models of gene flow in a well-studied vertebrate. \$540,000. (Co-PI with J. W. Fitzpatrick, I. J. Lovette, and R. Nielsen).

Florida Department of Agriculture, Division of Forestry (2003-2006). Banding of Florida scrub-jay families on Lake Wales Ridge State Forest. \$135,000. PI.

National Science Foundation (2000-2003). Timing of reproduction in birds: nutrition - endocrine interactions. \$264,000. (Co-PI with S. J. Schoech).

National Science Foundation (2000-2001). Field Stations and Marine Labs: Classroom and laboratory improvements for Archbold Biological Station. \$125,848. (Co-PI with H. Swain, P. Bohlen, E. Menges).

Department of Defense (1999-2005). Monitoring Florida scrub-jay, red-cockaded woodpecker, and Florida grasshopper sparrow populations at Avon Park Air Force Range. \$220,00/yr.

- Department of Defense (1998-1999). Demography of Florida scrub-jays at Avon Park Air Force Range. \$49,500.
- Department of Defense (1998-1999). Demography of red-cockaded woodpeckers at Avon Park Air Force Range. \$74,500.
- United States Fish and Wildlife Service (1998-2002). Maintaining a spatially-explicit database of the distribution of Florida scrub-jays and their habitat. \$10,000/yr.
- United States Fish and Wildlife Service (1997-2001). Forays and movements patterns of non-breeding Florida scrub-jays in a heterogenous landscape. \$128,000.
- United States Fish and Wildlife Service (1997-1998). Banding Florida scrub-jays in Highlands Co., FL. \$5,000.
- The Nature Conservancy (1996-1998). Status and distribution of the Florida scrub-jay at Cape Canaveral Air Station. \$89,000/yr.
- Department of Defense (1993-95, 1996-99). The influence of habitat fragmentation, habitat quality, and multiple resource management on the demography of Florida scrub jays at Avon Park Air Force Range. \$250,000, \$210,000.
- Department of Defense (1993-95, 1996-99). Population dynamics of a small, isolated red-cockaded woodpecker population at the Avon Park Air Force Range. \$350,000, \$290,000.
- Florida Game and Fresh Water Fish Commission (1995-97). Contributions of suburban jay populations to the metapopulation dynamics of the Florida scrub jay (*Aphelocoma coerulescens coerulescens*). \$62,775.
- USFWS, Department of Defense, and Florida Game and Fresh Water Fish Commission (1995). Genetic variation and population structure of red-cockaded woodpeckers across an ecological gradient in south Florida. \$10,000. (with S. Haig)
- Department of Defense (1994). A GIS-based analysis of Florida scrub jay habitat and demographics at the Avon Park Air Force Range. \$24,900. (with B. Stith)
- The Nature Conservancy (1992). Measurement of Florida scrub jay habitat at Avon Park Air Force Range using image processing techniques. \$30,000, (with B. Stith).
- The Nature Conservancy (1992). Florida scrub-jay habitat and population analysis at Avon Park Air Force Range. \$50,000.
- United States Fish and Wildlife Service (1992-94). Demographic effects of suburbanization and habitat fragmentation on Florida scrub-jay (*Aphelocoma coerulescens coerulescens*) populations. \$75,000, (with J. W. Fitzpatrick).
- Department of Defense, Avon Park Air Force Range (1991). Survey of endangered species: Florida scrub-jay and red-cockaded woodpecker. \$25,000, (with J. W. Fitzpatrick).
- Frank M. Chapman Memorial Fund, American Museum of Natural History (1987). Asynchronous hatching and brood reduction in White-crowned Pigeons. \$500.
- Frank M. Chapman Memorial Fund, American Museum of Natural History (1984). Ecological correlates of mate replacement in American Kestrels. \$550.
- Kelly Memorial Research Grant, Prov. of Quebec Soc. for Protection of Birds (1984). Mate replacement in American Kestrels. \$750.
- Summer Graduate Research Grant, McGill University (1983, 1984). Mate replacement in American Kestrels. \$3,000.

PROFESSIONAL MEMBERSHIPS

American Ornithologists' Union, Animal Behavior Society, Association of Field Ornithologists, Cooper Ornithological Society, Florida Ornithological Society, Society of Caribbean Ornithology, Society of Conservation Biology, Wilson Ornithological Society

PROFESSIONAL SERVICE

Member, External Review Committee, Tall Timbers Research Station, 2008-2009.
 Elective Councilor, American Ornithologists' Union, term 2005-2008.
 Elective Councilor, Association of Field Ornithologists', term 2004-2007, 2008-2011.
 Member, Highlands County Natural Resources Advisory Council, 2005-present.

Member, Bobwhite Quail Comprehensive Restoration Plan Team, FFWCC. 2005-present.
 Guest Editor, Southeastern Naturalist, 2004-2005.
 Member, Board of Trustees, Florida Chapter of The Nature Conservancy. 2001-present.
 Member, Conservation Committee, American Ornithologists' Union. 2001-present.
 Member and Chair, Research Awards Committee, American Ornithologists' Union. 2001-present.
 Member, Steering Committee, Fire Strike Team, The Nature Conservancy, 2001-present.
 Member, Xeric Oak Restoration Study Group, Central Florida Regional Planning Council, 1999-present.
 Member, Florida Scrub-Jay Recovery Team, USFWS, 1999-present.
 Secretary, State Records Committee, Florida Ornithological Society, 1998-2005.
 Associate Editor for Book Reviews, Florida Field Naturalist, 1991-2005.
 President, Florida Ornithological Society, 1997-1999.
 Member, Student Awards Committee, American Ornithologists' Union, 1993-1999.
 Recent Literature Committee, American Ornithologists' Union, 1988-1999.
 Chair, Conservation Committee, Florida Ornithological Society, 1996-1997
 Member, Committee on Publications, American Ornithologists' Union, 1995-1997.
 Chair, Research and Monitoring Committee, Arbuckle Ecosys. Interagency Working Group, 1994-1997.
 Chair, Membership Committee, Florida Ornithological Society, 1994.
 Member, Science Advisory Group to Brevard Co., FL, Scrub Jay HCP, 1993-1995.
 Member, Lake Wales Ridge Bioserve Team, TNC, 1993-1995.
 Secretary, Florida Ornithological Society, 1991-1995.
 Chair, Research Awards Committee, Florida Ornithological Society, 1991-1994.
 Member, Board of Directors, Florida Ornithological Society, 1991-1992.
 Associate Editor, Journal of Raptor Research, 1986-1989.
 President, McGill Univ. Chapter of The Wildlife Society, 1983.

Paper referee for Acta Ornithologica, American Midland Naturalist, Animal Conservation, Auk, Austral Ecology, Behaviour, Biological Conservation, Biology Letters, Biotropica, Condor, Conservation Biology, Conservation Ecology, Ecography, Ecological Applications, Ecology, Ecological Indicators, Ecological Research, Emu, Environmental Management, Florida Field Naturalist, Hydrobiologia, Ibis, Journal of Applied Ecology, Journal of Animal Ecology, Journal of Avian Biology, Journal of Field Ornithology, Journal of Raptor Research, Journal of Wildlife Management, Landscape Ecology, Landscape and Urban Planning, Natural Areas Journal, Ornis Fennica, Ornitologica Neotropical, Proceedings of the Royal Society London B, Southeastern Naturalist, Southern Journal of Applied Forestry, Urban Ecosystems, Wildlife Society Bulletin, Wilson Bulletin.

Grant referee for National Science Foundation, Florida Fish and Wildlife Conservation Commission, Idaho State Board of Education, Smith Fellowships for The Nature Conservancy, USGS Forest and Rangeland Ecosystem Center, World Wildlife Fund.

HONORS

Fellow, American Ornithologists' Union (2005)
 Elective Member, American Ornithologists' Union (2003)
 Conservation Colleague Award, The Nature Conservancy (1995)
 NSF/AOU Travel Award for XXI International Ornithological Congress (1994)
 AOU Council Award, Best Student Paper, American Ornithologists' Union (1992).
 Alexander Wilson Prize, Best Student Paper, Wilson Ornithological Society (1992).
 Marcia Brady Tucker Travel Award, American Ornithologists' Union (1991).
 Graduate Ecological Scholarship, Tampa Federation of Garden Club Circles (1990).
 Alumni Association Graduate Scholarship, University of South Florida (1989).
 Student Membership Award, Wilson Ornithological Society (1985).
 William C. Anderson Best Student Paper Award, Raptor Research Foundation Conf. (1984).
 Student Membership Award, American Ornithologists' Union (1983).

REFEREED PUBLICATIONS AND THESES

IN REVIEW (6)

- Aldredge, R., S. J. Schoech, S. LeClair, and R. Bowman. In review. Site-specific differences in hatching failure between a wildland and suburban population of Florida Scrub-Jays. *Auk*.
- Boughton, R.K., R. Bowman, S.J. Schoech. In revision. Variation in nestling immune response between wildland and suburban populations of Florida Scrub-jays (*Aphelocoma coerulescens*): Evidence for a trade-off between immune function and growth. *Oecologia*.
- Bowman, R., A. Feswick, and R. K. Boughton. In review. Brood reduction increases across an urban gradient: adaptive response or an unselected consequence of food limitation. *J. Avian Biology*.
- Kulahci, I, G. E. Woolfenden, and R. Bowman. In review. To eat or cache: food handling decisions after cache recovery in Florida Scrub-jays. *Ethology*.
- Bowman, R. A. Sauter, S. J. Reynolds, K. Schiegg, and S. J. Schoech. In Revision. Suburban Florida scrub-jay nestlings suffer from food limitation despite access to *ad libitum* human-provided foods. *Ecology*.
- Townsend, A., M. Dent, I. Lovette, J. W. Fitzpatrick, and R. Bowman. Genetic monogamy across variable demographic landscapes in cooperatively breeding Florida Scrub-Jays. *Behavioral Ecology*.

IN PRESS (1)

- Hailman, J. G. E. Woolfenden, and R. Bowman. Adolescence in the Florida Scrub-Jay. In Press. In: *Adolescence*. Stuart Copans (Editor).

PUBLISHED (67)

- Coulon, A., J. W. Fitzpatrick, R. Bowman, I. J. Lovette. 2010. Effective dispersal decreases with increased habitat fragmentation in the Florida Scrub-Jay: complimentary evidence from direct and indirect dispersal estimates. *Conservation Biology* 24:1080-1088.
- Tucker, Jr., J.W., G.R. Schrott, M. Delany, S. Glass, C. Hannon, P. Miller, and R. Bowman. 2010. Metapopulation structure, trends, and status of the Florida Grasshopper Sparrow. *Journal of Field Ornithology*. 81:267-277.
- Tucker, Jr, J. W., G. Schrott, and R. Bowman. 2010. Fire a, cattle grazing and the Endangered Florida Grasshopper Sparrow. *Southeast Naturalist* 9:237-250.
- Bridge, E.S., S. J. Schoech, R. Bowman, and J. Wingfield. 2009. Temporal predictability in food availability: effects upon the reproductive axis in Scrub-Jays. *Journal of Experimental Zoology*. 309A:35-44. DOI:10.1002/jez.493.
- Schoech, S. J. and R. Bowman. 2009. Does differential access to protein influence differences in timing of breeding of Florida Scrub-Jays (*Aphelocoma coerulescens*) in suburban and wildland habitats. Pages 391-404 in J. M. Marzluff et al. editors. *Urban ecology: An international perspective between humans and nature*. Spring, New York.
- Bednekoff, P. A., R. Bowman, and G. E. Woolfenden. 2008. Do conversational gutturals help Florida scrub-jays coordinate their sentinel behavior? *Ethology* 114:313-317.
- Bondo, K. J., L. N. Gilson, and R. Bowman. 2008. Anvil use by the Red-cockaded Woodpecker. *Wilson J. Ornithol.* 120:217-221.
- Coulon, A., J. W. Fitzpatrick, R. Bowman, B. M. Stith, C. A. Makarewich, L. M. Stenzler, and I. J. Lovette. 2008. Congruent population structures identified by dispersal modeling and intensive genetic surveys in the threatened Florida Scrub-Jay (*Aphelocoma caerulescens*). *Molecular Ecology*. 17:1685-1701.
- Fike, J.A., G. Athrey², R. Bowman, P. L. Leberg, and O. E Rhodes, Jr. 2008. Development of twenty-five polymorphic microsatellite markers for the endangered red-cockaded woodpecker (*Picoides borealis*). *Conservation Genetics* On-line early DOI 10.1007/s10592-008-9677-z.

- Schoech, S. J., E. S. Bridge, R. K. Boughton, S. J. Reynolds, J. W. Atwell, and R. Bowman. 2008. Food supplementation: a tool to increase reproductive output? A case study in the Threatened Florida Scrub-Jay. *Biological Conservation* 141:162-173.
- Seifferman, L., M. Shawkey, R. Bowman, and G. E. Woolfenden. 2008. Juvenile coloration of Florida Scrub-Jays (*Aphelocoma coerulescens*) is sexually dichromatic and correlated with condition. *Journal of Ornithology*. 149-357-363.
- Bridges, E., R. K. Boughton, R. A. Aldredge, T. J. E. Harrison, R. Bowman, and S. J. Schoech. 2007. Measuring egg size using digital photography: testing Hoyt's method using Florida Scrub-Jay eggs. *Journal of Field Ornithology* 78:109-116.
- Schoech, S. J., R. Bowman, E. Bridge, R. K. Boughton. 2007. Baseline and acute levels of corticosterone in Florida Scrub-Jays (*Aphelocoma coerulescens*): Effects of food supplementation, suburban habitat, and year. *General and Comparative Endocrinology* doi:10.1016/j.ygcen.2007.05.027.
- Schoech, S. J., R. Bowman, E. S. Bridge, G. M. Morgan, M. A. Rensel, T. E. Wilcoxon, and R. K. Boughton. 2007. Corticosterone administration does not affect timing of breeding in Florida Scrub-Jays (*Aphelocoma coerulescens*). *Hormones and Behavior* doi:10.1016/j.yhbeh.2007.04.004.
- Thorington, K. K., R. Bowman, R. Fleischer. 2007. *Molothrus ater* (Brown-headed Cowbird) lays egg in artificial nest in Highlands County, Florida. *Southeastern Naturalist* 6:559-563.
- Toomey, M., R. Bowman, and G. E. Woolfenden. 2007. The effects of social context on the food caching behaviour of Florida scrub-jays (*Aphelocoma coerulescens*). *Ethology* 113:521-527.
- Bowman, R. and J. Greenlaw. 2006. Fifteenth report of the Florida Ornithological Society Records Committee. *Florida Field Naturalist* 34:69-114.
- Sauter, A., Bowman, R., S. J. Schoech, and G. Pasinelli. 2006. Does optimal foraging theory explain why suburban Florida scrub-jays (*Aphelocoma coerulescens*) feed their young human-provided food? *Behavioral Ecology and Sociobiology* 60:465-474.
- Tucker, J. W. and R. Bowman. 2006. Characteristics of Florida Grasshopper Sparrow habitat across a gradient of population abundance and persistence at Avon Park Air Force Range. Pp 203-210 *In* Land of Fire and Water: The Florida Dry Prairie Ecosystem. Proceedings of the Florida Dry Prairie Conference. R. Noss, Ed. University Presses of Florida, Gainesville, FL.
- Pranty, B., A. W. Kratter, and R. Bowman. 2005. Records of the Bullock's Oriole in Florida. *Florida Field Naturalist* 33:41-46.
- Bowman, R. 2004. Fourteenth report of the Florida Ornithological Society Records Committee: 2001 - 2002. *Florida Field Naturalist* 32:7-33.
- Burger, J., R. Bowman, G. E. Woolfenden, and M. Gochfeld. 2004. Metal and metalloid concentrations in the eggs of threatened Florida scrub-jays in suburban habitat from south-central Florida. *Science of the Total Environment* 328:185-193.
- Schoech, S. J., R. Bowman, and S. J. Reynolds. 2004. Food supplementation and the mechanisms underlying early breeding in the Florida scrub-jay: a role for corticosterone? *Hormones and Behavior*. 46:565-573.
- Shawkey, M. D., R. Bowman, and G. E. Woolfenden. 2004. Why is brood reduction in Florida Scrub-Jays higher in suburban than wildland habitats. *Canadian Journal of Zoology*. 82:1-9.
- Bowman, R. 2003. Apparent cooperative hunting in the Florida Scrub-Jay. *Wilson Bulletin* 115:197-199.
- Bowman, R., D. L. Leonard, Jr., D. Swan, and D. Schwalm. 2003. Demography and population trends of a small red-cockaded woodpecker population in south-central Florida. *In* R. Costa and S. J. Daniels, eds., *Red-cockaded woodpecker: road to recovery*. Hancock House Publishers, Blaine, WA.
- Fleischer, A.L., Jr., R. Bowman, and G.E. Woolfenden. 2003. Variation in foraging behavior, diet, and time of breeding in Florida Scrub-Jays in suburban and wildland habitats. *Condor* 105:515-527.
- Reynolds, S. J., S. Schoech, and R. Bowman. 2003a. Nutritional quality of prebreeding diet influences breeding performance of the Florida scrub-jay. *Oecologia* 134:308-316.
- Reynolds, S.J., S. Schoech and R. Bowman. 2003b. Diet quality during pre-laying and nestling periods influences growth and survival of Florida scrub-jay (*Aphelocoma coerulescens*) chicks. *Journal of Zoology*, London 261:217-226.
- Schoech, S. and R. Bowman. 2003. Does differential access to protein influence differences in timing of

- breeding of Florida scrub-jays in suburban and wildland habitats? *Auk*. 120:1114-1127.
- Schwalm, D. and R. Bowman. 2003. Inbreeding depression or resource limitation: patterns of variation in hatching failure in red-cockaded woodpeckers at Avon Park Air Force Range. *In* R. Costa and S. J. Daniels, eds., *Red-cockaded woodpecker: road to recovery*. Hancock House Publishers, Blaine, WA.
- Thorington, K. and R. Bowman. 2003. Predation on experimental nests increases with human-density in suburban habitats. *Ecography* 26:188-196.
- Bowman, R. and G.E. Woolfenden. 2002. Nest-sites of Florida scrub-jays in natural and human-modified habitats. *Wilson Bulletin*. 114:128-135.
- Bowman, R. 2002. Common Ground-dove (*Columbina passerina*). *In* *The Birds of North America*, No. 645 (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA.
- Bowman, R., and G. E. Woolfenden. 2002. The scrub and the scrub-jay, imperiled natural treasures of Florida. Pp. 63-64 in Brashears, J. A. and S. Cerulean (eds.). *Great Florida birding trail, east section*. University Press of Florida.
- Bancroft, G. T. and R. Bowman. 2001. White-crowned Pigeon (*Columba leucocephala*). *In* *The Birds of North America* (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, and The American Ornithologists' Union, Washington, D.C.
- Bowman, R. and D. A. Aborn. 2001. Effects of different radio transmitter harnesses on the behavior of Florida Scrub-Jays. *Florida Field Naturalist*. 29:165-169.
- Bowman, R. and G. E. Woolfenden. 2001. Nest success and the timing of nest failure of Florida Scrub-Jays in suburban and wildland habitats. Pages 383-402 *In* *Avian Ecology and Conservation in an Urbanizing World*, Marzluff, J.M., R. Bowman, and R.E. Donnelly (eds.). Kluwer Academic Publ., New York, NY.
- Bowman, R. and J.M. Marzluff. 2001. Integrating avian ecology into emerging paradigms in urban ecology. Pages 569-578. *In* *Avian Ecology and Conservation in an Urbanizing World*, Marzluff, J.M., R. Bowman, and R.E. Donnelly (eds.). Kluwer Academic Publ., New York, NY.
- Schoech, S.J. and R. Bowman. 2001. Variation in the timing of breeding between suburban and wildland Florida Scrub-Jays: Do physiologic measures reflect different environments? Pages 289-306. *In* *Avian Ecology and Conservation in an Urbanizing World*, Marzluff, J.M., R. Bowman, and R.E. Donnelly (eds.). Kluwer Academic Publ., New York, NY.
- Marzluff, J.M., R. Bowman, and R.E. Donnelly. 2001. A historical perspective on urban bird research: trends, terms, and approaches. Pages 1-18. *In* *Avian Ecology and Conservation in an Urbanizing World*, Marzluff, J.M., R. Bowman, and R.E. Donnelly (eds.). Kluwer Academic Publ., New York, NY.
- Bancroft, G.T. and R. Bowman. 2000. Rainfall, fruiting phenology and the nesting season of white-crowned pigeons in the upper Florida Keys. *Auk* 117:416-426.
- Bowman, R. 2000. Thirteenth report of the Florida Ornithological Society Records Committee: 1996, 1997, 1998, 1999, and 2000. *Florida Field Naturalist* 28:138-160.
- Bowman, R., D.L. Leonard, Jr., L.K. Backus, and A.R. Mains. 1999. Interspecific interactions with foraging red-cockaded woodpeckers in south-central Florida. *Wilson Bull.* 111:346-353.
- Fitzpatrick, J.W., G.E. Woolfenden, and R. Bowman. 1999. Dispersal distances and its demographic consequences in the Florida Scrub-Jay. *In*; *Proc. 22nd Internat. Ornithol. Congr.*, Adams, N.J. and R. H. Slotow (Eds.). *Birdlife South Africa*. Pp. 2465-2479.
- Bowman, R. and G. E. Woolfenden. 1997. Nesting chronology of the Common Ground-Dove in Florida and Texas. *J. Field Ornithol.* 68:580-589.
- Bowman, R. 1996. Zenaida Dove (*Zenaida aurita*). Pp. 24-30. *In*: *Rare and endangered biota of Florida - birds*. Vol. II (J. Rodgers, ed.). Univ. Presses of Florida, Gainesville, FL.
- Bowman, R. 1996. Key West Quail-Dove (*Geotrygon chrysia*). Pp. 17-23. *In*: *Rare and endangered biota of Florida - birds*. Vol. II (J. Rodgers, ed.). Univ. Presses of Florida, Gainesville, FL.
- Haig, S.M., R. Bowman, and T.J. Mullins. 1996. Population structure of red-cockaded woodpeckers in south Florida: RAPDs revisited. *Molecular Ecology*. 5:725-734.
- Bowman, R. and C. Huh. 1995. Tree characteristics, resin flow, and heartwood rot in pines (*Pinus elliotii*, *P. palustris*), with respect to red-cockaded woodpecker cavity excavation, in two hydrologically-

- distinct Florida flatwood communities. Pp. 90-104, *In: Proceedings of the Red-cockaded Symposium III: Species Recovery, Ecology, and Management*, (R. Costa, D. L. Kulhavy, and R. G. Hooper, eds.), Charleston, SC.
- Bowman, R., P.W. Smith, and J.W. Fitzpatrick. 1995. First winter record of an Eastern Kingbird in Florida. *Florida Field Natl.* 23:62-64.
- Bowman, R. 1994. Frugivory, gut morphology and reproductive constraints in New World *Columba* pigeons. *J. für Ornithol.* 135:292-293.
- Kovach, C.J., J. Kurdziel, R. Bowman, J.W. Lawrence, and J. Wagner. 1992. The effect of stress and disturbance on proximate composition, allocation of production, respiration and photosynthesis in *Hygrophila polysperma* (Roxb) Anders. *Env. Exp. Botany* 32:479-486..
- Bowman, R. 1992. Asynchronous hatching and brood reduction in the White-crowned Pigeon (*Columba leucocephala*). Ph.D. dissertation. University of South Florida. Tampa, FL. 169 pp.
- Bancroft, G.T. and R. Bowman. 1994. Temporal patterns in diet of nestling White-crowned Pigeons: Implications for conservation. *Auk* 111:844-852.
- Bird, D.M., J.D. Weaver, I. Ritchie, and R. Bowman. 1990. Impact of forced renesting on reproductive success in Ungava Bay Peregrine Falcons (*Falco peregrinus*). *Can. Field Nat.* 104:219-222.
- Bowman, R., G.V.N. Powell, J.A. Hovis, N.C. Kline, and T. Wilmers. 1989. Variations in reproductive success between subpopulations of the Osprey (*Pandion haliaetus*) in South Florida. *Bull. Mar. Sci.* 44:245-250.
- Bowman, R. and G.T. Bancroft. 1989. Least Bittern nesting on mangrove keys in Florida Bay. *Florida Field Nat.* 17:43-45.
- Bowman, R. and D.M. Bird. 1987. Behavioral strategies of American Kestrels during mate replacement. *Behav. Ecol. Sociobiol.* 20:129-135.
- Bowman, R. 1987. Size dimorphism in mated pairs of American Kestrels. *Wilson Bull.* 99:465-467.
- Bowman, R. J. Duncan, and D.M. Bird. 1987. Dispersal and inbreeding avoidance in American Kestrels: are they related? *In: The Ancestral Kestrel*. (D.M. Bird and R. Bowman, eds.), Raptor Research Report #6, Raptor Research Foundation, 178 pp.
- Curley, E.M. and R. Bowman. 1987. Nest site characteristics of starling and kestrel occupied nest boxes. *In: The Ancestral Kestrel*. (D.M. Bird and R. Bowman, eds.), Raptor Research Report #6, Raptor Research Foundation, 178 pp.
- Bowman, R. and D.M. Bird. 1986. Ecological correlates of mate replacement in American Kestrels. *Condor* 88:440-445.
- Bowman, R. and E.M. Curley. 1986. Reverse mounting in the American Kestrel. *Wilson Bull.* 98:472-473.
- Bowman, R. 1985. Mate replacement in the American Kestrel. M.S. thesis. McGill University. 76 pp.
- Bowman, R. and D.M. Bird. 1985. Reproductive performance of American Kestrels laying replacement clutches. *Can. J. Zool.* 63:2590-2593.
- Wilmers, T., R. Bowman, and D.E. Samuels. 1985. Notes on incubation by male kestrels in West Virginia, Pennsylvania, and Quebec. *N. Amer. Bird Banding* 10:43-46..

BOOKS (2)

- Marzluff, J.M., R. Bowman, and R.E. Donnelly. 2001. *Avian Ecology and Conservation in an Urbanizing World*, Kluwer Academic Publ., New York, NY.
- Bird, D.M. and R. Bowman. 1987. *The Ancestral Kestrel*. Raptor Research Report #6, Raptor Research Foundation, 178 pp.

MANUSCRIPTS IN PREPARATION (to be submitted within the next 10-12 months)

- Aldredge, R., S. J. Schoech, and R. Bowman. Early incubation onset minimizes hatching failure at a cost of increasing hatching asynchrony. *Journal of Animal Ecology*.
- Boughton, R.K. and R. Bowman, R. Protected areas have not halted the decline of the threatened Florida Scrub-Jay (*Aphelocoma coerulescens*). *Biological Conservation*.
- Bowman, R., R. Aldredge, G. E. Woolfenden, and J. W. Fitzpatrick. Declining recruitment rates in Florida Scrub-Jays; disentangling ecological effects across an urban gradient. *Auk*.

- Bowman, R., M. Dent, G. Schrott. Dispersal patterns among and within perceptual neighborhoods of Florida Scrub-Jays in a fragmented landscape. *Ecology*.
- Bowman, R., S. J. Schoech, E. Bridge, R. Boughton, S. Pruett, G. E. Woolfenden, and J. W. Fitzpatrick. Global and local climate change and the Southern Oscillation: Effects on the breeding phenology of the Florida scrub-jay over the last quarter century. *Oecologia*.
- Bowman, R., G. Schrott, L. Gilson, and D. L. Leonard. Sources of variation in reproduction of red-cockaded woodpeckers in south-central Florida. *Condor*.
- Bowman, R., G. E. Woolfenden, S. J. Schoech, and J. W. Fitzpatrick. Sources of variation in timing of breeding in urban and wildland habitats: comparing alternative hypotheses. *Journal of Animal Ecology*.
- Bowman, R. G.E. Woolfenden, and J. W. Fitzpatrick. Timing of breeding and clutch size in Florida Scrub-Jays: long term effects of supplemental food. *Ecological Applications*.
- Brand, K. B., R. Bowman, and G. E. Woolfenden. Body mass variation in breeding Florida Scrub-Jays. *Journal of Ornithology*.
- Tucker, Jr., J.W., G.R. Schrott, and R. Bowman. Occupancy modeling of point count data from three core populations of the Endangered Florida Grasshopper Sparrow. *Journal of Field Ornithology*.
- Tucker, Jr., J.W., G.R. Schrott, and R. Bowman. Effects of habitat structure and fire on sites occupied by Florida Grasshopper Sparrows. *Wilson Journal of Ornithology*.

BOOKS

- Greenlaw, J., G. E. Woolfenden, and R. Bowman. Robertson and Woolfenden's Annotated List of Florida Bird Species. To be submitted to the Special Publications of the Florida Ornithological Society.

PUBLISHED ABSTRACTS, BOOK REVIEWS

- Bowman, R. 1990. Biodiversity and conservation in the Caribbean: profiles of selected islands. *Auk* 107:799-800. (Book Review).
- Bowman, R. 1992. The Kestrel. *Wilson Bull.* 104:383-384. (Book Review).
- Bowman, R., G.E. Woolfenden, and J.W. Fitzpatrick. 1998. Time of breeding and clutch size in the Florida scrub-jay (*Aphelocoma coerulescens*). *Ostrich* 69:316.
- J.W. Fitzpatrick, G.E. Woolfenden, and R. Bowman. 1998. Costs and benefits of long-distance dispersal in a sedentary bird, the Florida scrub-jay. *Ostrich* 69:127.
- R.L. Curry, L.M. Walton, R. Bowman, G.E. Woolfenden, and J.W. Fitzpatrick. 1998. Patterns and consequences of nest-site selection in Florida scrub-jays. *Ostrich* 69:280.
- Ellis, H.I., G.E. Woolfenden, and R. Bowman. 1998. Field metabolism of Florida scrub-jays during breeding. *Ostrich* 69:371.
- Schoech, S. J. and R. Bowman. 1998. Physiological correlates of variation in the timing of breeding in two populations of Florida Scrub-Jay (*Aphelocoma coerulescens*). *American Zoologist* 38:88A.
- Bowman, R. 2001. Avian research at the Savannah River Site: A model for integrating basic research and long-term management. *Auk* 118: 1110-1112 (Book Review).
- Schoech, S. J. and R. Bowman. 2001. Nutrition and the timing of reproduction in a free-living songbird. *Hormones and Behavior*. 39:347-348.
- Schoech, S. J., R. Bowman, and S. J. Reynolds. 2004. Corticosterone, nutrition, and timing of reproduction in Florida Scrub-Jays. *Hormones and Behavior*. 46:121.
- Bowman, R. 2009. Superdove? How humans facilitated the success of the Rock Pigeon. *Ecology* (In Press). (Book Review).

POPULAR ARTICLES

- Bowman, R. 1988. The pigeon of paradise. *Humm's Guide to the Florida Keys*. 10:41-42.
- Bowman, R. 1990. An island in time. *Adirondack Life*. 21(4):62-63.
- Bowman, R. 1991. The Athapaskan Quinzhee: a winter campers delight. *Adirondack Life*. 22(1):12-13.
- Woolfenden, G.E. and R. Bowman. 1992. Research on the Florida Scrub Jay at Archbold Biological Station: an overview. *Florida Nat.* 65:13-22.

Bowman, R., and G. E. Woolfenden. 1998. The scrub and the scrub-jay. *Florida Nat.* 71: 10-11.

INVITED LECTURES

- 1984.** Raptors of North America. Province of Quebec Society for Protection of Birds, Montreal, Canada.
- 1985.** Mate replacement in the American Kestrel: strategies of surplus non-breeders. Province of Quebec Society for Protection of Birds, Montreal, Canada.
- 1987.** Relationship between the reproductive ecology of the White-crowned Pigeon and the fruiting phenology of tropical hardwood hammock trees. Univ. Montana, Missoula, MT.
- 1992.** Asynchronous hatching and brood reduction in the White-crowned Pigeon. Archbold Biological Station, Lake Placid, FL.
- 1993.** Nutritional and reproductive ecology of the White-crowned Pigeon. Bionetics Corp, Kennedy Space Center, FL.
- 1993.** Endemic and endangered flora of the Lake Wales Ridge. Keynote address, Florida Native Plant Soc. Annual Meeting, Haines, FL.
- 1993.** Florida Scrub Jays in a fragmented landscape: implications of different matrix habitat types. Avon Park Air Force Range Workshop on Ecosystem Management, Lake Placid, FL.
- 1994.** Pigeon diversity in the New World: the relationship between diet, gut morphology, and life history strategies. University of Florida, Gainesville, FL.
- 1994.** Frugivory, gut morphology, and reproductive constraints in New World *Columba* pigeons. XXI Intl. Ornithol. Congress, Vienna, Austria.
- 1995.** Endemic species characteristics and conservation of ancient scrub. Issues and Ecosystems: Grassroots Strategies for Environmental Advocacy in Florida, University of Florida, Gainesville, FL.
- 1995.** Anthropogenic impacts on Florida scrub-jays: the costs and benefits of living in suburbia. Florida International University, Miami, FL.
- 1996.** The contribution of suburban scrub-jay populations to the metapopulation dynamics of Florida Scrub-Jays. University of Central Florida, Orlando, FL.
- 1998.** Costs and benefits of long-distance dispersal in a sedentary bird, the Florida scrub-jay. XXII Internat. Ornithol. Congress, Durban, South Africa.
- 1999.** Integrating population biology, landscape patterns, and viability analyses into habitat conservation planning for the Florida scrub-jay. National Marine Fisheries Service, Seattle, WA.
- 2000.** Influence of demography, helpers, and landscape on variation in individual dispersal patterns. Animal Behavior Society, Atlanta, GA.
- 2001.** A life history paradigm applied to urban avian ecology. University of Memphis, Memphis, TN.
- 2002.** Partitioning causes of low fledgling production by red-cockaded woodpeckers in south-central Florida. Wilson Ornithol. Society, Ft. Meyers, FL.
- 2002.** Life history strategies of suburban scrub-jays: adaptation or maladaptation? Archbold Biological Station, FL.
- 2002.** Fire cycle and source-sink dynamics of Florida Scrub-Jays on the Lake Wales Ridge (w/ J.W. Fitzpatrick and G.E. Woolfenden). American Ornithologists' Union, New Orleans, LA.
- 2003.** Human-provided foods in urban habitats: ecological advantage or evolutionary trap for native birds? 3rd Intl. Wildlife Management Congress, The Wildlife Society, Christchurch, New Zealand.
- 2004.** Genetic variation in Florida Scrub-Jays at several landscape scales: implications for theory and conservation. Florida Ornithological Society, Hobe Sound, FL.
- 2005.** Translocation as a tool in the recovery of the Threatened Florida Scrub-Jay. Plenary speaker, The Wildlife Society, Tarpon Springs, FL.
- 2005.** Variation in demography and life history strategies of birds across an urban-rural gradient. University of South Florida, Tampa FL.
- 2005.** Is human-provided food an ecological trap for suburban birds? Hahn Lecture in Ornithology, University of Michigan Biological Station at Douglas Lake. Douglas Lake, MI.
- 2005.** Dispersal patterns among and within perceptual neighborhoods of Florida Scrub-Jays in a fragmented landscape. University of Michigan Biological Station at Douglas Lake. Douglas Lake, MI.
- 2005.** Is human-provided food an ecological trap for suburban birds? Hahn Lecture in Ornithology, Swiss Ornithological Institute, Sempache, Switzerland.

- 2005.** Dispersal patterns among and within perceptual neighborhoods of Florida Scrub-Jays in a fragmented landscape. Department of Zoology, University of Zurich, Zurich, Switzerland.
- 2005.** Sources of variation in timing of breeding in birds: insights from controlled and natural experiments. Department of Behavior, Ecology, and Evolution, University of Zurich, Switzerland.
- 2006.** Urban effects on the timing of breeding in birds: patterns, mechanisms, and consequences. Department of Biology, University of Quebec at Montreal.
- 2006.** Urban effects on timing of breeding in birds: patterns, mechanisms, and consequences. University of Cincinnati.
- 2006.** Is Human-Provided Food an Evolutionary Trap? An Apparent Paradox for Suburban Birds. American Museum of Natural History.
- 2006.** Effects of urbanization on birds: impacts on local recruitment rates. Department of Biology, Florida Atlantic University.
- 2008.** Urban effects on the timing of breeding in birds: patterns, mechanisms, and consequences. Department of Biology, University of Central Florida.
- 2008.** Life histories inform conservation: lessons learned from the Florida Scrub-Jay. San Diego Zoo.
- 2008.** Episodic disease and host population dynamics: Demographic response to epidemics in a well-studied organism. Department of Biology, California State University at Fresno.
- 2009.** Episodic disease and the population dynamics of the Florida Scrub-Jay (*Aphelocoma coerulescens*). Symposium on the Conservation Biology and Evolutionary Genetics of Aphelocoma Jays, Cooper Ornithological Society, Tucson, AZ.
- 2010.** Seasonal interactions and carry-over effects in a year-round resident, the Florida Scrub-Jay. 25th International Ornithological Congress, Campos do Jordao, Brazil.

CONFERENCE PRESENTATIONS

- Bowman, R. 1979. Burn areas and growth variations at the Flat Rock Jack Pine Barrens. Proc. Sigma Xi Symp., Platts, NY.
- Bowman, R. and D.M. Bird 1982. Forced reneating in wild American Kestrels. Proc. Raptor Res. Conf., Salt Lake City, UT.
- Bird, D.M. and R. Bowman. 1982. Peregrine Falcon populations in Ungava Bay, Quebec. Proc. Raptor Res. Conf., Salt Lake City, UT. .
- Bowman, R. and D.M. Bird. 1983. Philopatry and inbreeding in kestrels: anecdotal evidence. The Ancestral Kestrel Symp., St. Louis, MO.
- Bowman, R. 1984. Behavior of widow and replacement mates in wild American Kestrels. Proc. Raptor Res. Conf., Blacksburg, VA.
- Bowman, R. and D.M. Bird. 1984. Are American Kestrels philopatric and/or incestuous? Proc. 102nd AOU Mtg, Lawrence, KS.
- Curley, E.M. and R. Bowman. 1984. Nest site characteristics of starling and kestrel occupied nest boxes. Proc. Raptor Res. Conf., Blacksburg, VA.
- Bowman, R. 1985. Ecological correlates of mate replacement in American Kestrels. Proc. 103rd AOU Mtg, Tempe, AZ.
- Bowman, R. 1986. Indifference by replacement male American Kestrels towards unrelated young: why not infanticide? Proc. Raptor Res. Conf., Gainesville, FL.
- Bowman, R., G.V.N. Powell, J.A. Hovis, N.C. Kline and T. Wilmers. 1987. Variations in reproductive success between subpopulations of the Osprey in South Florida. Proc. Symp. on Florida Bay, Miami, FL.
- Bowman, R., G.V.N. Powell, J.A. Hovis, N.C. Kline and T. Wilmers. 1987. Variations in reproductive success between subpopulations of the Osprey in South Florida. Proc. Raptor Res. Conf., Boise, ID.
- Bancroft, G.T. and R. Bowman. 1988. Reproductive ecology of White-crowned Pigeons in relation to tropical fruit production. Proc. Soc. Caribbean Ornithol., St. Croix, USVI.
- Hoffman, W., M. Carrington, and R. Bowman. 1988. Avian seed dispersal and the flora of the Florida Keys. Proc. 106th AOU Mtg. Fayetteville, AR.
- Bowman, R. and G.T. Bancroft. 1989. Diet, nutritional quality of food, and reproductive success in White-

- crowned Pigeons. Proc. Wilson Ornithol. Soc., Notre Dame, IN.
- Bancroft, G.T., R. Bowman, and R. Sawicki. 1989. Flowering and fruiting phenologies of selected hardwood hammock trees in the Florida Keys. S. Florida Plant Biologist Meeting, Miami, FL.
- Kurdziel, J., C. Kovach, R. Bowman, J. Lawrence, and J. Wagner. 1989. The influence of stress and disturbance on proximate composition and allocation of production in *Hygrophila polysperma* (Robs.) Anders. Florida Acad. Sci., Jacksonville, FL.
- Bancroft, G.T. and R. Bowman. 1990. Age and seasonal diet of nestling White-crowned Pigeons. Proc. Soc. Caribbean Ornithol., Kingston, Jamaica.
- Bowman, R. and G.T. Bancroft. 1991. Nutritional constraints on reproduction in the White-crowned Pigeon. Proc. 109th AOU Mtg. Montreal, PQ.
- Bowman, R. 1992. Influence of hatching asynchrony on the reproductive ecology of the White-crowned Pigeon. Proc. 72nd Wilson Ornithol. Soc., Kissimmee, FL.
- Bowman, R. 1992. Brood reduction, nestling size asymmetries and growth patterns in White-crowned Pigeons. Proc. 110th AOU Mtg., Ames, IA.
- Bowman, R. 1993. Reproductive success and establishment of nestling size asymmetries in White-crowned Pigeons. Fla. Ecology and Evol. Symp., Lake Placid, FL.
- Bowman, R. 1993. Feeding behavior of White-crowned Pigeon nestlings in relation to diet, hatching sequence and hatching pattern. Soc. Caribbean Ornithol., Playa Giron, Cuba.
- Bowman, R. 1993. Florida Scrub Jays in a fragmented landscape. Fla. Ornithol. Soc., Lake Placid, FL.
- Bowman, R. and C. Huh. 1993. Tree characteristics, resin flow, and heartwood rot in pines (*Pinus elliottii*, *P. palustris*) in Florida flatwoods. Red-cockaded Woodpecker Symposium III: Species Recovery, Ecology, and Management, Charleston, SC.
- Bowman, R. and C. Huh. 1993. Nesting habitats of south Florida Red-cockaded Woodpeckers (*Picoides borealis*). Proc. 111th AOU Mtg., Fairbanks, AK.
- Bowman, R., J.W. Fitzpatrick, and G.E. Woolfenden. 1994. Demographic patterns in a suburban population of Florida Scrub Jays. Proc. 112th AOU Mtg., Missoula, MT.
- Bowman, R., G.E. Woolfenden, and J.W. Fitzpatrick. 1995. Dissimilar reproductive patterns in two populations of Florida scrub-jays: the costs and benefits of living in suburbia. Conservation Biology, Ft. Collins, CO.
- Bowman, R. and B. Stith. 1995. Remotely-sensed landscape correlates of source-sink dynamics in the Florida scrub-jay. 113th AOU Mtg., Cincinnati, OH.
- Bergen, S., H. Swain, and R. Bowman. 1995. Comparisons of past, present, and future land uses in relation to current HCP planning for the threatened Florida scrub-jay. Conservation Biology, Ft. Collins, CO.
- Fleischer, A. and R. Bowman. 1995. Nest predation in a suburban population of Florida scrub-jays. 113th AOU Mtg., Cincinnati, OH.
- Root, K., et al. 1995. Prognosis for a population: assessing a reserve design for the Florida scrub-jay in Brevard County, Florida. Conservation Biology, Ft. Collins, CO.
- Root, K., et al. 1995. What can population viability analysis (PVA) tell us about the probable success of a spatially-explicit reserve design: the Florida scrub-jay in Brevard County, Florida as a case study. Ecological Society of America, Snowbird, UT.
- Stith, B. and R. Bowman. 1995. Remotely sensed landscape correlates of source-sink dynamics in the Florida scrub-jay. Conservation Biology, Ft. Collins, CO.
- Swain, H., et al. 1995. Out of the pyrogenic frying pan and into the political fire: developing reserve designs for the Florida scrub-jay. Conservation Biology, Ft. Collins, CO.
- Bowman, R. 1996. The influence of supplemental food and habitat fragmentation on Florida Scrub-Jay population density. Cooper Ornithological Society, San Diego, CA.
- Bowman, R., et al. 1996. A method of evaluating the relative isolation of Red-cockaded Woodpecker clusters. 114th AOU Mtg., Boise, ID.
- Bowman, R. and G. E. Woolfenden. 1996. Nest-site selection by Florida Scrub-Jays in natural and human-modified habitats. 114th AOU Mtg., Boise, ID.
- Bowman, R. and G.E. Woolfenden. 1996. Nesting chronology of Common Ground-doves in Florida and

- Texas. Association of Field Ornithologist's Mtg., Jekyll Island, GA.
- Bancroft, G.T., R. Bowman, and R.J. Sawicki. 1996. Nesting chronology of White-crowned Pigeons relative to fruiting phenology in the Florida Keys. 114th AOU Mtg., Boise, ID.
- Backus, L., R. Bowman, D.L. Leonard and A. Mains. 1997. Factors affecting home-range size of red-cockaded woodpeckers in south-central Florida. 115th AOU Mtg., Minneapolis, MN.
- Hamel, N., R. Bowman, and L. Riopelle. 1997. Can we predict dispersal patterns from source-sink models? An empirical test using the Florida scrub-jay. 115th AOU Mtg., Minneapolis, MN.
- Leonard, D.L., R. Bowman, L. Backus, and A.R. Mains. 1997. Interspecific interactions with foraging red-cockaded woodpeckers in south-central Florida. 115th AOU Mtg., Minneapolis, MN.
- Bowman, R., G.E. Woolfenden, and J.W. Fitzpatrick. 1998. Variation in time of breeding and clutch size in Florida scrub-jays: what is an appropriate cue for breeding decisions? North Amer. Ornithol. Conf. St. Louis, MO.
- Bowman, R., G.E. Woolfenden, and J.W. Fitzpatrick. 1998. Time of breeding and clutch size in the Florida scrub-jay (*Aphelocoma coerulescens*). XXII Intl. Ornithol. Congress, Durban, South Africa.
- Curry, R.L., L.M. Walton, R. Bowman, G.E. Woolfenden, and J.W. Fitzpatrick. 1998. Patterns and consequences of nest-site selection in Florida scrub-jays. XXII Intl. Ornithol. Congress, Durban, South Africa.
- Ellis, H.I., G.E. Woolfenden, and R. Bowman. 1998. Field metabolism of Florida scrub-jays during breeding. XXII Intl. Ornithol. Congress, Durban, South Africa.
- Leonard, D.L. and R. Bowman. 1998. Demographic consequences of limited breeding opportunities in a south-central Florida red-cockaded woodpecker population. North Amer. Ornithol. Conf. St. Louis, MO.
- Bowman, R. and G. E. Woolfenden. 1999. Nest success and the timing of nest failure of Florida scrub-jays in urban and natural habitats. 69th Cooper Ornithol. Soc. Mtg. Portland, OR.
- Bowman, R. and G. E. Woolfenden. 1999. Survival and recruitment of Florida scrub-jays across a suburban gradient: Are suburban populations stable? 117th AOU Mtg., Ithaca, NY.
- Bowman, R., J. M. Marzluff, and K. J. McGowan. 1999. Introduction to urban bird studies: an historical perspective. 117th AOU Mtg., Ithaca, NY.
- Dent, M. L. and R. Bowman. 1999. Vegetation structure and post-fledging survival of Florida scrub-jays in suburban and natural habitats. 117th AOU Mtg., Ithaca, NY.
- Ellis, H. I., G. E. Woolfenden, and R. Bowman. 1999. Metabolic rates of Florida scrub-jays. 117th AOU Mtg., Ithaca, NY.
- Fleischer, A. L. and R. Bowman. 1999. Effects of supplemental food across a suburban gradient on pre-breeding behavior of female Florida scrub-jays. 117th AOU Mtg., Ithaca, NY.
- Marzluff, J. M. and R. Bowman. 1999. Summary and future needs in the study of urbanization effects on birds. 69th Cooper Ornithol. Soc. Mtg., Portland, OR.
- McGowan, K. J., J. M. Marzluff, and R. Bowman. 1999. Synthesis, opportunities and future directions in urban avian ecology. 117th AOU Mtg., Ithaca, NY.
- Schoech, S. J. and R. Bowman. 1999. Variation in the timing of breeding in two Florida scrub-jay populations: do physiological measures reflect different environments. 117th AOU Mtg., Ithaca, NY.
- Schoech, S. J. and R. Bowman. 1999. Physiological correlates of variation in the timing of breeding in two populations of Florida Scrub-Jay (*Aphelocoma coerulescens*). Society for Integrative and Comparative Biology, Denver, CO.
- Stith, B.M., D. R. Breininger, R. Bowman, and J.W. Fitzpatrick. 2000. Assessing restoration potential of Florida Scrub-Jay habitat using an individual-based model. 15th Annual Symposium International Association For Landscape Ecology, Ft. Lauderdale, FL.
- Bowman, R. and N. Hamel. 2000. Influence of demography, helpers, and landscape on variation in individual dispersal patterns in Florida scrub-jays. Animal Behavior Society, Atlanta, GA.
- Fleischer, A. L. Jr. and R. Bowman. 2000. Habitat use and diet of suburban Florida Scrub-Jays across a gradient of human density. American Ornithologists' Union, St. Johns, Newfoundland.
- Schoech, S. J. and R. Bowman. 2000. Differential timing of breeding in two Florida Scrub-Jay populations: physiological measures reflect novel environments. VIIth International Symposium on Avian

- Endocrinology, Varanasi, India.
- Shawkey, M. D. and R. Bowman. 2000. Proximate causes of brood reduction in Florida Scrub-Jays in suburban habitats. American Ornithologists' Union, St. Johns, Newfoundland.
- Shawkey, M. D. and R. Bowman. 2000. Proximate causes of brood reduction in Florida Scrub-Jays in suburban habitats. Florida Academy of Sciences, Melbourne, FL.
- Swan, D., R. Bowman, and D. L. Leonard. 2000. Variation in life history traits in a small RCW population in central Florida. Florida Ornithological Society, Tallahassee, FL.
- Bowman, R. 2001. Demography of Florida Scrub-Jays in a suburban matrix: implications for reserve design and population viability analyses. 118th AOU Mtg., Seattle, WA.
- Schoech, S. J. and R. Bowman. 2001. Nutrition and the timing of reproduction in a free-living songbird. Society for Behavioral Neuroendocrinology, Scottsdale, AZ.
- Schoech, S. and R. Bowman. 2001. Nutrition and the timing of reproduction in Florida Scrub-Jays. 118th AOU Mtg., Seattle, WA.
- Bowman, R., G.E. Woolfenden, and J.W. Fitzpatrick. 2002. Between-year variation in the timing of breeding by Florida Scrub-Jays: similarities and differences between populations. AOU Mtg., New Orleans LA.
- Breihagen, T., G. E. Woolfenden, and R. Bowman. 2002. Ptilochronology, growth, and survival of fledgling Florida Scrub-Jays. Wilson Ornithol. Society, Ft. Meyers, FL.
- Reynolds, S.J., S.J. Schoech, and R. Bowman. 2002. Nutritional quality of prebreeding diet affects breeding performance in the Florida scrub-jay. XXIII Intl. Ornithol. Congress, Beijing, China.
- Schoech, S.J., and R. Bowman. 2002. The timing of reproduction in Florida scrub-jays: the effect of supplemental food. XXIII Intl. Ornithol. Congress, Beijing, China.
- Schoech, S. J. and R. Bowman. 2002. Anthropogenic effects on avian reproductive physiology: A study of two populations. Symposium: *Adaptation and Constraint in Avian Reproduction: Integrating Ecology and Endocrinology*. Wageningen, The Netherlands.
- Bowman, R. et al. 2003. Demography and population trends of a small, isolated red-cockaded woodpecker population in south-central Florida. Red-cockaded Woodpecker Symposium IV, Savannah, GA.
- Schwalm, D. and R. Bowman. 2003. Inbreeding depression or resource limitation: patterns of variation in hatching failure in red-cockaded woodpeckers at Avon Park Air Force Range. Red-cockaded Woodpecker Symposium IV, Savannah, GA.
- Bowman, R. 2003. Dispersal patterns among and within perceptual neighborhoods of Florida Scrub-Jays in a fragmented landscape. 121st AOU Mtg., Champaign-Urbana, IL.
- Sauter, A. and R. Bowman. 2003. Is human-provided food in suburbs an evolutionary trap for Florida Scrub-Jays. 121st AOU Mtg., Champaign-Urbana, IL.
- Bowman, R., S. J. Schoech, and G. E. Woolfenden. 2004. Urbanization influences timing of breeding in birds: interactions between food and stress on reproduction. 18th Mtg., Society of Conservation Biology, New York City, NY.
- Bowman, R., A. Sauter, S. J. Schoech, and K. Schiegg. 2004. Good start, lousy finish? Variation in growth and survival of Florida Scrub-Jay nestlings across an urban gradient. 122nd AOU Mtg., Quebec City, Quebec, Canada.
- Bowman, R. 2004. Genetic variation in Florida Scrub-Jays at several landscape scales: implications for theory and conservation. Florida Ornithological Society, Hobe Sound, Florida.
- Bowman, R. 2004. Genetic variation in Florida Scrub-Jays at several landscape scales: implications for theory and conservation. Florida Department of Environmental Protection Biologists Meeting Wekiva Springs, Florida.
- LeClair, S., R. Bowman, and S. J. Schoech. 2004. Comparisons of hatching failure in a wildland and suburban population of the Florida Scrub-Jay. 122nd AOU Mtg., Quebec City, Quebec, Canada.
- Sauter, A., R. Bowman, S. J. Schoech, and K. Schiegg. 2004. Good start, lousy finish? Variation in growth and survival of Florida Scrub-Jay nestlings across an urban gradient. 18th Mtg., Society of Conservation Biology, New York City, NY.
- Sauter, A., R. Bowman S. J. Schoech and G. Pasinelli. 2004. Human-provided foods in suburban habitats: Why parents feed them to nestlings despite knowing better. 10th Jubilee Congress, International Society for Behavioral Ecology, University of Jyväskylä, Finland.

- Schoech, S. J. and R. Bowman. 2004. Timing of reproduction in Florida Scrub-Jays (*Aphelocoma coerulescens*): Roles for nutrition and corticosterone. Animal Behavior Society, Oaxaca, Mexico.
- Schoech, S. J. and R. Bowman. 2004. Proximate factors that mediate timing of reproduction in Florida Scrub-Jays. Cooper Ornithological Society, La Crosse, Wisconsin.
- Schoech, S. J., R. Bowman, and S. J. Reynolds. 2004. Corticosterone, nutrition, and timing of reproduction in Florida Scrub-Jays.. Society for Behavioral Neuroendocrinology, Lisbon, Portugal.
- Schoech, S.J., R. Bowman and S. J. Reynolds. 2004. Interactions between nutrition, corticosterone, and reproduction in Florida Scrub-Jays. Soc. Integrative and Comparative Biol., New Orleans, LA.
- Schoech, S. J., S. J. Reynolds, and R. Bowman. 2004. Nutrition, Corticosterone, and Reproduction in Florida Scrub-Jays (*Aphelocoma coerulescens*). VIIIth International Symposium on Avian Endocrinology, Scottsdale, AZ.
- Schoech, S. J., S. J. Reynolds and R. Bowman. 2004. Food, stress, and sex: food supplementation, corticosterone, and reproduction in Florida Scrub-Jays. 122nd AOU Mtg., Quebec City, Quebec, Canada.
- Sorin, A. B., S. J. Schoech, S. J. Reynolds, and R. Bowman. 2004. Impacts of food supplementation on offspring sex ratios for cooperative breeding Florida Scrub-Jays. Animal Behavior Society, Oaxaca, Mexico.
- Bowman, R., S. J. Schoech, S. J. Reynolds. Diet quality influences breeding performance in Florida Scrub-Jays. 123rd AOU Mtg., Santa Barbara, CA.
- Boughton, R. K., E. Bridge, S. J. Schoech, and R. Bowman. Asynchronous hatching in Florida Scrub-Jays is associated with lighter females and smaller egg volumes. 123rd AOU Mtg., Santa Barbara, CA.
- Schoech, S. J., E. Bridge, R. Bowman, R. Boughton, R. Mumme, J. Fitzpatrick, and G. Woolfenden. Global climate acts locally: ENSO explains much of the inter-year variation in timing of breeding in Florida Scrub-Jays. 123rd AOU Mtg., Santa Barbara, CA.
- Toomey, M. B., R. Bowman, and G. E. Woolfenden. 2005. The effects of social context on the food caching behavior of Florida Scrub-Jays. Animal Behavior Society. Snowbird, UT.
- Aldredge, R. A., R. Bowman, R. K. Boughton, S. J. Schoech. 2006. Increased ambient temperatures in an urban landscape affect hatching success of the threatened Florida scrub-jay. Society for Integrative and Comparative Biology. Orlando, FL.
- Boughton, R. K., R. Bowman, L. Kearns, and S. J. Schoech. 2006. Variation between suburban and wildland populations in nestling immune response of Florida scrub-jays. Society for Integrative and Comparative Biology. Orlando, FL.
- Boughton, R.K, E. S. Bridge, R. Bowman, and S. J. Schoech. 2006. Innate immune capacity of Florida Scrub-Jays (*Aphelocoma coerulescens*) varies with age, sex, and season. 4th North American Ornithological Congress, Veracruz, Mexico.
- Bowman, R., G. E. Woolfenden, J. W. Fitzpatrick, S. J. Schoech, E. S. Bridge. 2006. Global climate and local weather influences between-year variation in timing of breeding in Florida Scrub-Jays. 4th North American Ornithological Congress, Veracruz, Mexico.
- Fitzpatrick, J. W., G. E. Woolfenden, and R. Bowman. 2006. Long-term ornithological research and its application for conservation science: The case of the Florida Scrub-Jay. 4th North American Ornithological Congress, Veracruz, Mexico.
- Hewett, E. L., R. Bowman, G. E. Woolfenden, and J. W. Fitzpatrick. 2006. Influence of recruitment age on lifetime reproductive success of the cooperative Florida Scrub-Jay. 4th North American Ornithological Congress, Veracruz, Mexico.
- Kulahci, I., R. Bowman, and G. E. Woolfenden. 2006. To eat or to recache: food handling decisions after cache recovery in Florida Scrub-Jays. Animal Behavior Society. Snowbird, UT.
- Leonard, D. L., R. Boughton, R. Bowman, and R. S. DeLotelle. 2006. The effect of four hurricanes on seven small red-cockaded woodpecker populations in peninsular Florida. 4th North American Ornithological Congress, Veracruz, Mexico.
- Aldredge, R. A., R. Bowman, R. K. Boughton, E. S. Bridge, and S. J. Schoech. 2007. Scrub-jays vary onset of incubation to minimize hatching failure. 125th AOU Mtg., Laramie, WY.

- Bowman, R., R. K. Boughton, A. Feswick, and G. E. Woolfenden. 2007. Brood reduction increases across an urban gradient: adaptive response or an unselected consequence of food limitation. 125th AOU Mtg., Laramie, WY.
- Bowman, R. Coulon A., J. W. Fitzpatrick, C. A. Makarewich, L. M. Stenzler, I. J. Lovette, and B. M. Stith. 2007. Congruent population structure identified by dispersal modeling and intensive genetic surveys in the Threatened Florida Scrub-Jay (*Aphelocoma coerulecens*). Annual Mtg, Association of Field Ornithologists, Orono, ME.
- Coulon A., J. W. Fitzpatrick, C. A. Makarewich, L. M. Stenzler, I. J. Lovette, B. M. Stith, and R. Bowman. 2007. Congruent population structure identified by dispersal modeling and intensive genetic surveys in the Threatened Florida Scrub-Jay (*Aphelocoma coerulecens*). 40th Annual Mtg. Population Genetics Group, Manchester, UK.
- Schrott, G. R., Dent. M., and R. Bowman. 2007. Mechanical habitat restoration improves demographic performance of Florida scrub-jays (*Aphelocoma coerulescens*). Ecological Society of America, San Jose, CA.
- Aldredge, R.A., R. K. Boughton, M. A. Rensel, S. J. Schoech, and R. Bowman. 2008. Hatching asynchrony occurs as a by-product of maintaining egg viability. 126th AOU Mtg, Portland, OR.
- Aldredge, R. A., S. LeClair, G. E. Woolfenden, and R. Bowman. 2008. Differences in hatching failure between suburban and wildland Florida Scrub-jays. Animal Behavior Society Mtg, Snowbird, UT.
- Boughton, R. K., E. S. Bridge, R. Bowman, and S. J. Schoech. 2008. Investigation of the trade-off between reproduction and survival in cooperatively breeding Florida scrub-jays: Does immune response mediate the effect of reproductive effort on survival? International Behavioral Ecology Congress, Ithaca, NY.
- Boughton, R. K. and R. Bowman. 2008. Protected areas have not halted the decline of the Threatened Florida Scrub-Jay (*Aphelocoma coerulescens*). Annual Mtg, Society for Conservation Biology, Chattanooga, TN.
- Bowman, R., R. A. Aldredge, S. LeClair, G. E. Woolfenden. Variation in recruitment rates across an urban gradient is driven by bottom-up rather than top-down processes. 126th AOU Mtg, Portland, OR.
- Coulon, A., J. W. Fitzpatrick, R. Bowman, and I. J. Lovette. 2008. Effective dispersal decreases with increased habitat fragmentation in the Florida Scrub-Jay: Complimentary evidence from direct and indirect dispersal analyses. 126th AOU Mtg, Portland, OR.
- Coulon, A., J. W. Fitzpatrick, R. Bowman, and I. J. Lovette. 2008. Effective dispersal decreases with increased habitat fragmentation in the Florida Scrub-Jay: Complimentary evidence from direct and indirect dispersal analyses. International Behavioral Ecology Congress, Ithaca, NY.
- Fitzpatrick, J. W. and R. Bowman. 2008. Lifetime risks and rewards of territorial budding in the Florida scrub-jay. International Behavioral Ecology Congress, Ithaca, NY.
- Schrott, G. R., L. Gilson, D. L. Leonard, and R. Bowman. 2008. The role of hatch failure in demographic limitation of a Red-cockaded Woodpecker population in south-central Florida. 126th AOU Mtg, Portland, OR.
- Tucker, J. W., G. R. Schrott, and R. Bowman. 2008. Occupancy modeling to examine detection probabilities and population trends of the Endangered Florida Grasshopper Sparrow. Joint Meeting of the Association of Field Ornithologists and the Wilson Ornithological Society, Mobile, AL.
- Tucker, J. W., G. R. Schrott, and R. Bowman. 2008. Habitat selection in the Endangered Florida Grasshopper Sparrow (*Ammodramus savannarum floridanus*). Joint Meeting of the Association of Field Ornithologists and the Wilson Ornithological Society, Mobile, AL.
- Aldredge, J. A., R. Bowman, and R. Noss. 2009. Territory size and placement during breeding for the Florida Grasshopper Sparrow (*Ammodramus savannarum floridanus*). 79th Mtg. Cooper Ornithological Society, Tucson, AZ.
- Coulon, A., J. W. Fitzpatrick, J. R. Bowman, R., and I. J. Lovette. 2009. Effects of landscape changes on gene flow in Florida Scrub-Jays. 79th Mtg. Cooper Ornithological Society, Tucson, AZ.
- Emory, S., D. Martin, D. Sumpter, R. Bowman, and D. Leeper. 2009. Lake surface area and bird species richness. 20th Mtg. Florida Lake Management Society, Key Largo, FL.

- Fitzpatrick, J. W. and R. Bowman. 2009. Two sources of demographic instability among populations of Florida Scrub-Jays (*Aphelocoma coerulescens*). 79th Mtg. Cooper Ornithological Society, Tucson, AZ.
- Fitzpatrick, J. W., L. Stenzler, C. Makerewich, and R. Bowman. 2009. True genetic monogamy in scrub-jays: extra-pair paternity absent regardless of demographic circumstances. 127th Mtg. American Ornithologists' Union, Philadelphia, PA.
- Boughton, R.K., S.J. Schoech, E.S. Bridge, M.S. Pruett, J.W. Fitzpatrick, and R. Bowman. 2010. Weather patterns and laying dates of the Florida Scrub-Jay. 128th Mtg. American Ornithologists' Union, San Diego, CA.
- Bowman, R., R.K. Boughton, M. S. Pruett, and J. W. Fitzpatrick. 2010. Carry-over effects of acorn abundance on the demography of Florida Scrub-Jays. 128th Mtg. American Ornithologists' Union, San Diego, CA.
- Niederhauser, J. M., and R. Bowman. 2010. Variation in parental care and nestling begging calls in suburban and wildland populations of Florida Scrub-Jays. 128th Mtg. American Ornithologists' Union, San Diego, CA.
- Pruett, M.S., R.K. Boughton, J.W. Fitzpatrick, and R. Bowman. 2010. Survival from fledging to independence in the cooperatively breeding Florida Scrub-Jay. 128th Mtg. American Ornithologists' Union, San Diego, CA.
- Schrott, G.R., L. Gilson, and R. Bowman. 2010. Differential reproductive success in a red-cockaded woodpecker population: Implications for hatch failure rates and translocation policy. 95th Mtg. Ecological Society of America, Pittsburg, PA.
- Tringali, A. and R. Bowman. 2010. Using ptilochronology to compare condition of Florida Scrub-Jay juveniles in different habitats. 128th Mtg. American Ornithologists' Union, San Diego, CA.