

CURRICULUM VITAE

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EDUCATION

Doctor of Philosophy in Wildlife Science, *Texas A&M University, College Station, Texas, 1994.* Dissertation title: Competition and predation as processes affecting community patterns of geese.

Master of Science in Biology, *Winthrop University, Rock Hill, South Carolina, 1988.* Thesis title: Reproductive success and nesting habitat of loggerhead shrikes, and relative abundance, habitat use, and perch use of loggerhead shrikes and American kestrels in South Carolina.

Bachelor of Science in Wildlife, *University of Wisconsin Stevens Point, Stevens Point, Wisconsin, 1984.*

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Ornithologists' Union
Association of Field Ornithologists
Cooper Ornithological Society
Ecological Society of America
Florida Chapter of The Wildlife Society
Florida Ornithological Society
Restoration and Wetlands Working Groups of The Wildlife Society
The Wildlife Society
Waterbird Society
Wilson Ornithological Society

CERTIFICATIONS

Certified Senior Ecologist, The Ecological Society of America, 2006 to present.

Master Bird Bander, U.S. Geological Survey Bird Banding Lab, 2004 to present.

Certified Wildlife Biologist, The Wildlife Society, 1999 to present.

AWARDS AND HONORS

2009 Researcher of the Year (Associate Professor level), Florida Atlantic University, 2009.

2009 College of Science Researcher of the Year (Associate Professor level), Charles E. Schmidt College of Science, Florida Atlantic University, 2009.

Service Recognition, South Florida Ecosystem Restoration Task Force, 2008.

Florida Atlantic University Faculty Research Incentive Award, Florida Atlantic University, 2006.

Plenary speaker for Symposium on Coastal Restoration and Enhancement through Science and Technology (CREST), Thibodaux, LA, 2003.

Elective Member, American Ornithologists Union, 2002 to present.

Employee of the month, South Florida Water Management District, December 2002.

Team of the month, Natural System Drought Team, Watershed Research and Planning Department, South Florida Water Management District, 2001.

Outstanding Doctoral Candidate of the Year, Department of Wildlife and Fisheries Sciences, Texas A&M University, 1993.

Student Paper of the Year, Annual Wilson Ornithological Society Meeting, 1987.

Paul A. Stewart Award, Wilson Ornithological Society, 1987.

Paul A. Stewart Award, Wilson Ornithological Society, 1986.

Student Membership Award, Wilson Ornithological Society, 1986.

FELLOWSHIPS

Senior Visiting Fellow, *Australian Wetlands and River Centre, University of New South Wales, 2011-2012.*

Tom Slick Senior Graduate Fellow, *Texas A&M University, 1993 - 1994.*

EMPLOYMENT

Director, Environmental Sciences Program, *Charles E. Schmidt College of Science, 2007 - present.*

Expanded the interdisciplinary program in Environmental Sciences among the 6 departments in the Charles E. Schmidt College of Science and departments in several other colleges. Oversaw increased enrollment to historic high and improved qualifications of applicants. Enhanced the vertical integration of MS program with undergraduate curriculum and PhD students and post docs in a robust research initiative on aquatic restoration. The Environmental Sciences Program through the research initiative builds on considerable synergistic activities with institutions such as the U.S. Geological Survey, National Park Service, U.S. Fish and Wildlife Service, South Florida Water Management District, Harbor Branch Oceanographic Institution, and the Palm Beach County Zoo. The Environmental Sciences Program administers an MS degree in Environmental Sciences, an undergraduate certificate in Environmental Sciences, and a graduate certificate in Environmental Restoration.

Professor, *Department of Biological Sciences, Florida Atlantic University, 2013 – present.*

Associate Professor, *Department of Biological Sciences, Florida Atlantic University, 2008 – 2013.*

Assistant Professor, *Department of Biological Sciences, Florida Atlantic University, 2003 – 2008.* Research is aimed at understanding the wetland ecosystem processes that control populations of wading birds, with particular emphasis on hydrology and nutrients. Also emphasize study of the processes that make food available to birds and the various responses of birds to varying levels of food availability. Related questions deal with various wetland processes and effects on other birds and aquatic fauna. Heavy emphasis on use of in situ experiments in macro and mesocosms as well as large scale sampling studies and the development of GIS habitat models and resource selection functions. Advise undergraduate, MS, and Ph.D. students who conduct research in wetland and avian ecology. Teach undergraduate and graduate courses in Principles of Ecology, Conservation Biology, and Avian Ecology.

Senior Environmental Scientist (Avian Ecologist), *Everglades Division, Landscape Processes Group, South Florida Water Management District, 1994 – 2003.* Designed, directed, and conducted field research on the effects of hydrologic properties and nutrients on aquatic vertebrate communities in the Everglades, with special emphasis on wading birds and avian communities. Directed a team of research associates and field technicians

and managed an annual program budget of \$ 0.2 - 0.7 mil. Conceived of and directed the construction and operation of a 30-ha physical model system of the Everglades (series of 7-ha macrocosms) to be used for multidisciplinary studies of wading birds and aquatic fauna, tree islands, vegetation communities, and peat soils.

Postdoctoral Research Associate, *Texas A&M University, Sep - Oct 1994*. Effects of spatial scale and environmental variability on temporal patterns of nesting colonial waterbirds along the Texas coast.

Graduate Research Assistant, *Texas A&M University, 1990 - 1993*. Ph.D. research on the effects of competition and predation on community patterns of geese.

Research Supervisor, *Environmental Labs Inc, Apr - Jul 1990*. Directed field research and supervised 11 technicians involved in a toxicology study on golf courses in central Florida. Organized data collection, monitored data quality, coordinated activities with golf course personnel, and directed pesticide treatments.

Biologist, *Environmental Labs Inc, May - Sep 1988 and Apr - Jul 1989*. Impacts of pesticides on avian communities in golf courses in Florida and corn fields in Nebraska. Conducted bird surveys, small mammal censuses, vegetation surveys, determined bird-carcass removal rates by predators, and mist-netted and color-marked a wide variety of birds.

Biological Consultant, *Savannah River Ecology Laboratory, Aiken, South Carolina, 1987 - 1988*. Response of avian community to planted wetland vegetation on newly created reservoirs at the Savannah River Plant.

Graduate Research Assistant, *Winthrop University, 1985 - 1987*. Thesis research on loggerhead shrikes and American kestrels.

Wildlife Technician, *U.S. Fish & Wildlife Service, Northern Prairie Wildlife Research Center, Jamestown, ND, Apr - Jul 1985*. Located waterfowl nests, predator nests or dens, and analyzed vegetation as part of an ongoing study of mallard recruitment rates.

Research Assistant, *University of Wisconsin Stevens Point, Dec 1984 - Apr 1985*. Radio-telemetry study of red fox and greater prairie chickens. Assembled and attached radio transmitters to fox and prairie chickens, and monitored their movements throughout the winter.

Research Coordinator, *Dr. R. K. Anderson, University of Wisconsin Stevens Point, Stevens Point, WI, May - Aug 1984*. Supervised 2-3 technicians, located northern harrier nests, trapped and marked adult harriers, and followed their movement patterns. Surveyed small mammal populations, analyzed nesting vegetation, monitored kestrel nest boxes, and banded young and adult kestrels.

Research Coordinator, *Drs. Fredrick and Frances Hamerstrom, Plainfield, WI, Jun - Aug 1981*. Supervised 1-2 technicians, located northern harrier nests, trapped and marked adult harriers, and observed their movement patterns. Surveyed small mammal populations, analyzed nesting vegetation, monitored kestrel nest boxes, and banded young and adult kestrels. Primary author of Project Guidelines for conducting the 22-year study.

VOLUNTEER POSITIONS

Visiting Scientist, *Long-term study of snow goose ecology in La Perouse Bay, Manitoba, Jun 1992, by Dr. Fred Cooke*. Conducted nest searches and time-activity budgets of nesting snow geese.

Research Coordinator, *Texas A&M University, 1990 - 1994*. Supervised 4-8 technicians and compiled data related to the observation of neck-banded geese wintering in Texas. Organized and participated in capturing geese with rocket nets and attaching neck-bands.

Research Assistant and Naturalist, *Little Lewis Whirlwind Nature School and Sanctuary, Jay, OK, May - Aug 1983*. Lead and assisted in nature interpretive walks, collected plants for herbarium, conducted breeding bird surveys, and banded ruby-throated hummingbirds and songbirds.

Research Assistant, *Drs. Fredrick and Frances Hamerstrom, Plainfield, WI, Jun - Aug 1976 - 1979*. While in

Junior High School and High School, assisted with long-term research project on breeding biology of northern harriers and American kestrels. Developed field skills and set career goals.

ELECTED POSITIONS

Councilor, *Association of Field Ornithologists, 2013-2016.*

Past President, *Florida Chapter of The Wildlife Society, 2013-2014.*

President, *Florida Chapter of The Wildlife Society, 2011 – 2013.*

President-elect, *Florida Chapter of The Wildlife Society, 2010 – 2011.*

Vice President, *Florida Chapter of The Wildlife Society, 2007-2009.*

Representative to the Southeast Section of The Wildlife Society, *Florida Chapter of The Wildlife Society, 2005-2007.*

Secretary, *Florida Chapter of The Wildlife Society, 2003-2005.*

Executive Board Member at Large, *Florida Chapter of The Wildlife Society, 2001 -2003.*

Past Chair, Restoration Working Group, *The Wildlife Society, 2001.*

Chair, Restoration Working Group, *The Wildlife Society, 2000.*

Chair Elect, Restoration Working Group, *The Wildlife Society, 1999.*

ACADEMIC COMMITTEES

Steering Committee for University Research Theme: Coastal and Marine, *Florida Atlantic University, 2012-2013.*

Curriculum Committee, *College of Science, Florida Atlantic University, 2012-present.*

Integrative Biology PhD Program Committee, *Florida Atlantic University, 2011- present.*

Search Committee for Director of Harbor Branch Oceanographic Institute, *Florida Atlantic University, 2010.*

Executive Committee for Charles E. Schmidt College of Science, *Florida Atlantic University, 2009-present.*

Faculty Search Committee Plant Ecologist, *Department of Biological Sciences, Florida Atlantic University, 2009.*

Chair, Environmental Sciences Program Committee, *Florida Atlantic University, 2007-present.*

Florida Department of Environmental Protection and FAU Coordination Committee, *Florida Atlantic University, 2007-2010.*

Integrative Biology Ph.D. Admissions Committee, *College of Science, FAU, 2005- 2006.*

Chair, Faculty Search Committee Ecological Modeler, *Department of Biological Sciences, Florida Atlantic University, 2005.*

Graduate MS Program Committee, *Department of Biological Sciences, FAU, 2004- present.*

Graduate Student Advisory Council, *College of Agriculture and Life Sciences, Texas A&M University, 1992 - 1993*. Developed recommendations for the expenditure of Graduate Program Enhancement Funds at the college level.

Graduate Affairs Committee, *Department of Wildlife and Fisheries Sciences, Texas A&M University, 1992 - 1993*. Developed recommendations on graduate affairs for graduate faculty.

PROFESSIONAL COMMITTEES

Best Student Publication Committee, *Association of Field Ornithologists, 2013-present*.

Student Travel Award Committee, *Association of Field Ornithologists, 2013-present*.

Science Advisory Committee, *Gulf Coast Bird Observatory, Lake Jackson, Texas, 2012 – present*.

Science Advisory Committee for the Whooping Crane Eastern Partnership, *U.S. Fish and Wildlife Service, 2011-present*.

Local Arrangements Committee: Chair, Fieldtrips, 2008 International Conference of The Wildlife Society, *Florida Chapter of The Wildlife Society, 2007-2008*.

Aldo Leopold Memorial Award Committee, *The Wildlife Society, 2007*.

Scholarship Committee, *Florida Ornithological Society, 2006-2007*.

Chair, Aldo Leopold Memorial Award Committee, *The Wildlife Society, 2006*.

Reddish Egret Working Group, *U.S. Fish and Wildlife Service, 2005-present*.

Wood Stork Working Group, *U.S. Fish and Wildlife Service, 2005-present*.

Cruikshank Award Committee, *Florida Ornithological Society, 2005-2009*.

Peer Review Panel Member for Kissimmee Chain of Lakes Long-term Management Plan Conceptual Ecosystem Model, *South Florida Water Management District, 2005*.

Louis Agassiz Fuertes Award Committee, *Wilson Ornithological Society, 2004-2005*.

Aldo Leopold Memorial Award Committee, *The Wildlife Society, 2005*.

Isolated Wetland Drawdown Criteria Working Group, *1999 - 2000*. Evaluated hydrological and biological models to assist in rule development for groundwater withdrawals in south Florida.

Critical Ecosystem Studies Initiative Program, Science Advisory Committee, *1999 – 2000*. Provided guidance and recommendations for federal research implementation directed at south Florida ecosystem restoration and management.

Chair, Membership Committee, *Florida Chapter of The Wildlife Society, 1999 - 2001*.

Central Everglades Subteam of the Scientific Advisory Team to the U.S. Army Corp of Engineers Central and South Florida Restudy, *1997 – 2000*. Evaluated predicted ecosystem response to various management scenarios as part of the federal Everglades Restoration effort.

Honorary Membership and Special Recognition Service Award Committee, *The Wildlife Society, 1994 – 1995 and 1999 - 2000*.

Southern Everglades Restoration Alliance, Natural Systems Team, *1995 – 1999*. Developed guidelines and

implemented portions of a biological monitoring program to evaluate hydrologic changes to the southern Everglades.

Wading Bird Success Criteria Team of the Science Sub-group of the South Florida Ecosystem Restoration Interagency Working Group of the South Florida Ecosystem Restoration Task Force, 1996 – 1997. Developed indices to assess the recovery of wading bird populations in the Everglades as part of the Everglades restoration process.

International Shrike Working Group North American Section, 1993 - 1995. Promoted conservation of shrikes and endorsed qualified research on shrikes in North America.

OTHER PROFESSIONAL EXPERIENCE

Organized training workshop on python handling and safety, with Nature Conservancy, Florida Fish and Wildlife Conservation Commission, and Miami Dade Fire Rescue, *Florida Atlantic University*, June 2012.

Panelist, Invasive Species Workshop, *Palm Beach State College*, Boca Raton, FL, 2012.

Reviewer, Biological Status Review of Florida's Threatened Species Program, *Florida Fish and Wildlife Conservation Commission*, 2010.

Dissertation Reviewer, *University of New South Wales*, Sydney, Australia, 2010.

Dissertation Reviewer, *University of New England*, Armidale, Australia, 2010.

Co-organized symposium entitled System-wide Science: Translating a Trophic Hypothesis Foundation for Restoration. Greater Everglades Ecosystem Restoration Conference, 2010, Naples, FL.

Panelist, Scripps Howard Institute on the Environment: Continuing education for journalists. *Florida Atlantic University*, 2009.

Panelist, Oil and Gas Impacts in the Big Cypress Ecosystem. *The Everglades Foundation*, 2009-2010.

Co-organized a workshop entitled Climate Change and Greater Everglades Restoration. *Florida Atlantic University*, 2008.

Co-organized a workshop entitled Development of a Tree Island Conceptual Ecological Model and Tree Island Performance Measures. *Florida Atlantic University*, 2007.

Everglades Restoration Workshop Organizer, *Florida Atlantic University*, 2007 and 2008. Brought together senior scientists involved in Everglades restoration to discuss alternatives under changing water availability scenarios.

Editorial Board Member, *The Scientific World*, 2000-2003.

Editor, South Florida Wading Bird Report, 1996-2003.

Manuscript Referee, 1985 – Present, *American Midland Naturalist*, *Auk*, *Conservation Biology*, *Conservation Ecology*, *Ecology*, *Florida Field Naturalist*, *Ibis*, *Journal of Animal Conservation*, *Journal of Field Ornithology*, *Journal of Raptor Research*, *Journal of Wildlife Management*, *Southwest Naturalist*, *Waterbirds*, *Wetlands*, and *Wilson Journal of Ornithology*.

Assistant Editor, *Wilson Bulletin*, Aug 1985 - Dec 1987. Edited, refereed, and guided manuscripts through all stages of the editorial process.

International Natural Resources Management Training, *University of Wisconsin Stevens Point*, 1982. Summer course West Germany on integrated forestry, wildlife, water, and soil resource management.

TEACHING

Instructor, *Florida Atlantic University*, Conservation Biology (PCB 6045). Developed and taught new graduate course on the principles of Conservation Biology. Format is lecture, team projects, guest speakers, paper discussions, and a field trip.

Instructor, *Florida Atlantic University*, Seminar in Avian Ecology (Zoo 6544C). Developed and taught new graduate course focusing on recent topics in the literature. Format is student-led discussion with introductory and synthesis lectures by the instructor.

Instructor, *Florida Atlantic University*, Principles of Ecology (PCB 4043). Taught this existing large enrollment undergraduate course required for biology majors. Format is lecture with three simulation model exercises done in teams.

Advisor for undergraduate Fellows in National Science Foundation Undergraduate Research and Mentoring program in the Department of Biological Sciences at Florida Atlantic University (2009-present).

Workshop instructor, *Lamanai Field Research Station*, Orangetown, Belize, 2003. Member of U.S. scientific team conducting training on research and monitoring for Belizean scientists.

Contributing Naturalist, *University of Florida, Institute of Food and Agriculture Science*, 2001, Training film for Florida Master Naturalist Program, Freshwater Wetlands Module (FW14).

Doctoral candidate graduate committee member, *University of Florida, Department of Wildlife Ecology and Conservation*, 1998 – 2002.

Courtesy Assistant Professor of Biology, *Department of Biology, Florida International University*, 1996 – 1999.

Contributing Instructor, *University of Florida, Institute of Food and Agriculture Science*, 1999 -2006, Survey of a Land System - South Florida Ecosystems (SOS-6932).

Instructor, *Department of Wildlife and Fisheries Sciences, Texas A&M University*, Spring semester 1994. Wildlife Conservation and Management (WFSC 201).

Guest Lecturer, *Department of Wildlife and Fisheries Sciences, Texas A&M University*, Fall semester 1991. Renewable Natural Resources (REN205).

Teaching Assistant, *Department of Biology, West Virginia University*, Sep 1989 - Apr 1990. Biology 3 Lab.

RESEARCH GRANTS AND CONTRACTS

Restoration modeling: wading bird synthesis and refinement. D. E. Gawlik, funded \$10,000 by National Park Service, 2013-2014.

Dry season prey concentrations. D. E. Gawlik, funded \$202,426 by U.S. Army Engineer Corp of Engineers Research and Development Center, 2013.

Feasibility of modeling impacts of sea level rise on foraging habitat of the Little Blue Heron in the Great White Heron National Wildlife Refuge, Phase II: factors affecting habitat D. E. Gawlik and B. Lapointe, funded \$50,000 by U.S. Fish and Wildlife Service, 2012-2013.

Impacts of sea-level rise and anthropogenic nutrient inputs on the Little Blue Heron. D. E. Gawlik and B.

Lapointe, funded \$8,000 by FAU Seed Grant, 2012-2013.

Postdoctoral investigator program in marine science, engineering and technology: effects of nutrient enrichment on wading bird habitat in the Great White Heron National Wildlife Refuge, lower Florida Keys. B. Lapointe and D. E. Gawlik, funded \$112,640 by Harbor Branch Oceanographic Institute at Florida Atlantic University, 2012-2014.

Dry season prev concentrations. D. E. Gawlik, funded \$202,350 by U.S. Army Engineer Corp of Engineers Research and Development Center, 2012.

Wading bird colony location and size in Pelican Island National Wildlife Refuge. D. E. Gawlik, funded \$7,958 by U.S. Fish and Wildlife Service, 2011-2012.

Feasibility of modeling impacts of sea level rise on foraging habitat of the Little Blue Heron in the Great White Heron National Wildlife Refuge. D. E. Gawlik and Z. Xie, funded \$49,741 by U.S. Fish and Wildlife Service, 2010-2011.

Aquatic fauna seasonal concentrations. D. E. Gawlik, funded \$210,245 by South Florida Water Management District, 2010-2011 (Funded at \$974,033 through FY 15 but subsequently reduced because of state budget cuts).

Wading bird evaluation team/assessment team model integration and development. E. Noonburg, D. E. Gawlik, and Z. Xie, funded \$167,848 by U.S. Army Engineer Corp of Engineers Research and Development Center, 2010-2012.

Aquatic fauna seasonal concentrations supplemental funding. D. E. Gawlik, funded \$49,485 by South Florida Water Management District, 2009-2010.

Wading bird colony location, size, timing and Wood Stork nesting success: Lake Okeechobee. D. E. Gawlik, funded \$428,404 by U.S. Army Engineer Corp of Engineers Research and Development Center, 2009-2013.

Everglades fellowship program at Florida Atlantic University. D. E. Gawlik, funded \$500,000 by National Park Service, 2009-2011.

Multiple responses of Wood Storks and other wading birds to wetland restoration. D. E. Gawlik, funded \$40,000 by South Florida Water Management District, 2009-2010.

Multiple responses of Wood Storks and other wading birds to wetland restoration. D. E. Gawlik and M. Cook, funded \$50,859 by Florida Fish and Wildlife Conservation Commission, 2008-2010.

Patterns of variability and error in the EDEN digital elevation model in the A.R.M. Loxahatchee National Wildlife Refuge. Z. Xie and D. E. Gawlik, funded \$12,838 by U.S. Geological Survey, 2008.

Assessment of the environmental lift of stormwater treatment areas on South Florida avifauna: phase II long-term study. D. E. Gawlik, funded \$122,523 by South Florida Water Management District, 2008-2010. Received \$76,386 for 1 of 3 years.

Assessment of the environmental lift of stormwater treatment areas on South Florida avifauna - phase I feasibility study. D. E. Gawlik, funded \$43,131 by South Florida Water Management District, 2007.

Wading bird colony location, size, timing and Wood Stork nesting success. D. E. Gawlik, funded \$279,243 by National Park Service, 2007-2008.

Aquatic fauna seasonal concentrations. D. E. Gawlik, funded \$535,000 by South Florida Water Management

District, 2007-2010.

LILA: Factors affecting wading bird prey availability and foraging success. D. E. Gawlik, funded \$280,101 by South Florida Water Management District, 2006-2009.

Landscape suitability index for the wood stork and white ibis in southwest Florida. D. E. Gawlik, funded \$60,000 by University of Florida, 2006-2007.

Wading bird colony location, size, timing and Wood Stork nesting success. D. E. Gawlik, funded \$220,360 by National Park Service, 2005-2006.

Constraints of landscape prey availability on resource use, physiological condition, and productivity of Great Egrets and White Ibises in the Florida Everglades. D. E. Gawlik and G. Herring, funded \$488,095 by U.S. Fish and Wildlife Service, 2005-2007.

Foraging flights of Wood Storks in Everglades National Park. D. E. Gawlik, funded \$70,000 by National Park Service, 2004-2006.

Aquatic fauna seasonal concentrations. D. E. Gawlik, funded \$391,000 by South Florida Water Management District, 2003-2006.

Effects of hydrology on wading bird foraging parameters as part of the Critical Ecosystems Studies Initiative. D. E. Gawlik and F. Sklar, funded \$124,000 by U.S. Geological Survey, 1999-2002.

Status and trends of selected vertebrate resources in the Galveston Bay System. R. D. Slack and D. E. Gawlik, funded \$12,478 by Texas Parks and Wildlife Department, 1991.

Effects of flock organization and habitat use on the foraging behavior of geese in southeastern Texas. R. D. Slack and D. E. Gawlik, funded \$26,000 by The Southeast Texas Wildlife Foundation, 1991-1992.

REFEREED PUBLICATIONS

JOURNAL PUBLICATIONS

Klassen, J. A. and **D. E. Gawlik**. *In press*. Length-weight and length-length relationships for common fish and crayfish species in the Everglades, Florida, USA. *Journal of Applied Ichthyology*.

Beck, T. J., **D. E. Gawlik**, and E. V. Pearlstine. 2013. Community patterns in treatment wetlands, natural wetlands, and croplands in Florida. *Wilson Journal of Ornithology* 125: 329-341.

Herring, G., C. A. Eagles-Smith, J. T. Ackerman, **D. E. Gawlik**, and J. A. Beerens. 2013. Landscape factors and hydrology influence mercury concentrations in wading birds breeding in the Florida Everglades, USA. *Science of the Total Environment* 458-460: 637-646.

Herring, G. and **D. E. Gawlik**. 2013. Differential physiological responses to prey availability by the Great Egret and White Ibis. *Journal of Wildlife Management* 77: 58-67.

Xie, Z., L. Pearlstine, and **D. E. Gawlik**. 2012. Developing a fine-resolution digital elevation model to support hydrological modeling and ecological studies in the northern Everglades. *GIScience and Remote Sensing* 49:664-686.

Lantz, S. M., **D. E. Gawlik**, and M. I. Cook. 2011. The effects of water depth and emergent vegetation on foraging success and habitat selection of wading birds in the Everglades. *Waterbirds* 34:439-447.

- Beerens, J. M., **D. E. Gawlik**, G. Herring, and M. I. Cook. 2011. Dynamic habitat selection by two wading bird species with divergent foraging strategies in a seasonally fluctuating wetland. *Auk* 128:651-662.
- Herring, H. K., and **D. E. Gawlik**. 2011. Resource selection functions for Wood Stork foraging habitat in the Southern Everglades. *Waterbirds* 34:133-142.
- Calle, L. and **D. E. Gawlik**. 2011. Anthropogenic food in the diet of the Sacred Ibis, *Threskiornis aethiopicus*, a non-native wading bird in southeastern Florida, USA. *Florida Field Naturalist* 39:1-15.
- Dorn, N. J., M. I. Cook, G. Herring., R. A. Boyle, J. Nelson, and **D. E. Gawlik**. 2011. Aquatic prey switching and urban foraging by the White Ibis *Eudocimus albus* are determined by wetland hydrological conditions. *Ibis* 153:323-335.
- Herring, G., M. I. Cook, **D. E. Gawlik**, and E. M. Call. 2011. Food availability is expressed through physiological stress indicators in nestling white ibis: a food supplementation experiment. *Functional Ecology* 25:682-690.
- Pierce, R. L., and **D. E. Gawlik**. 2010. Wading bird foraging habitat selection in the Florida Everglades. *Waterbirds* 33:494-503.
- Herring, G., **D. E. Gawlik**, M. I. Cook, J. M. Beerens. 2010. Sensitivity of nesting Great Egrets (*Ardea alba*) and White Ibises (*Eudocimus albus*) to reduced prey availability. *Auk* 127:660-670.
- Lantz, S. M., **D. E. Gawlik**, and M. I. Cook. 2010. The effects of water depth and submerged aquatic vegetation on the selection of foraging habitat and foraging success of wading birds. *Condor* 112:460-469.
- Herring, G. and **D. E. Gawlik**. 2010. Avian radio-transmitter harness wear and failure. *Southeastern Naturalist* 9:595-604.
- Xie, Z., **D. E. Gawlik**, J. M. Beerens, Z. Liu, and A. L. Higer. 2009. Variability patterns and outlier smoothing of the Everglades Depth Estimation Network digital elevation model in the northern Everglades. *Papers of the Applied Geography Conference* 32:342-351.
- Herring, G., **D. E. Gawlik**, and D. A. Rumbold. 2009. Feather mercury concentrations and physiological condition of Great Egret and White Ibis nestlings in the Florida Everglades. *Science of the Total Environment* 407:2641-2649.
- Herring, G. and **D. E. Gawlik**. 2009. Stability of avian fecal corticosterone metabolites levels in frozen feces. *Journal of Wildlife Management* 73:1010-1013.
- Frederick, P., **D. E. Gawlik**, J. C. Ogden, M. Cook and M. Lusk. 2009. The White Ibis and Wood Stork as indicators for restoration of Everglades ecosystem. *Ecological Indicators* 9S:S83-S95.
- Herring, G., **D. E. Gawlik**, and J. M. Beerens. 2008. Sex determination of the Great Egret and White Ibis. *Waterbirds* 31:298-303.
- Dorn, N. J., G. Herring, and **D. E. Gawlik**. 2008. Estimation of crayfish abundance and size-structure in White Ibis diets. *Waterbirds* 31:417-423.
- Herring, G., J. M. Beerens, and **D. E. Gawlik**. 2008. Evaluating two new methods for capturing large wetland birds. *Journal of Field Ornithology* 79:102-110.

- Herring, G. and **D. E. Gawlik**. 2007. Potential for successful population establishment of the nonindigenous Sacred Ibis in the Florida Everglades. *Biological Invasions* 10:969-976.
- Herring, G. and **D. E. Gawlik**. 2007. The role of stress proteins in the study of allostatic overload in birds, use and applicability to current studies in avian ecology. *The Scientific World* 7:1596-1602.
- Gawlik, D. E.** and G. E. Crozier. 2007. A test of cues affecting habitat selection by wading birds. *Auk* 124:1075-1082.
- Herring, G. and **D. E. Gawlik**. 2007. Multiple nest-tending behavior in an adult female White Ibis. *Waterbirds* 30:150-151.
- M. J. Chimney and **D. E. Gawlik**. 2007. The avifauna of constructed treatment wetlands in South Florida used for Everglades restoration. *Florida Field Naturalist* 35:9-21.
- Gawlik, D. E.** 2006. The role of wildlife science in wetland ecosystem restoration: lessons from the Everglades. *Ecological Engineering* 26:70-83.
- Havens, K. E. and **D. E. Gawlik**. 2005. Lake Okeechobee conceptual ecological model. *Wetlands* 25:908-925.
- Wetzel, P. R., A. G. van der Valk, S. Newman, **D. E. Gawlik**, T. T. Gann, C. A. Coronado-Molina, D. L. Childers, and F. H. Sklar. 2005. Maintaining tree islands in the Florida Everglades: nutrient redistribution is the key. *Frontiers in Ecology and the Environment* 3:370-376.
- Sklar, F. H., M. J. Chimney, S. Newman, P. McCormick, **D. Gawlik**, S. Miao, C. McVoy, W. Said, J. Newman, C. Coronado, G. Crozier, M. Korvela, and K. Rutchey. 2005. The ecological-societal underpinnings of Everglades restoration. *Frontiers in Ecology and the Environment* 3:161-169.
- Smith, S. M., **D. E. Gawlik**, K. Rutchey, G. E. Crozier, and S. Gray. 2003. Assessing drought-related ecological risk in the Florida Everglades. *Journal of Environmental Management* 68:355-366.
- Crozier, G. E. and **D. E. Gawlik**. 2003. Wading bird nesting effort as an index to wetland ecosystem integrity. *Waterbirds* 26:303-324.
- Kelly, J. F., **D. E. Gawlik**, and D. K. Kieckbusch. 2003. An updated account of wading bird foraging behavior. *Wilson Bulletin* 115:105-107.
- Crozier, G. E. and **D. E. Gawlik**. 2003. The use of decoys for attracting wading birds. *Journal of Field Ornithology* 74:53-58.
- Gawlik, D. E.** 2002. The effects of prey availability on the numerical response of wading birds. *Ecological Monographs* 72:329-346.
- Bancroft, G. T., **D. E. Gawlik**, and K. Rutchey. 2002. Distribution of wading birds relative to vegetation and water depths in the northern Everglades. *Waterbirds* 25:265-391.
- Crozier, G. E. and **D. E. Gawlik**. 2002. Avian response to nutrient loading in an oligotrophic wetland. *The Condor* 104:631-642.
- Melvin, S. L., **D. E. Gawlik**, and T. Scharff. 1999. Long-term movement patterns for seven species of wading birds. *Waterbirds* 22:411-416.

- Gawlik, D. E.**, R. D. Slack, J. A. Thomas, and D. N. Harpole. 1998. Long-term trends in population and community measures of colonial-nesting waterbirds in Galveston Bay Estuary. *Colonial Waterbirds* 21:143-151.
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- Gawlik, D.E. 2012. Wading birds in the Everglades: cream skimmers and crumb pickers. Ten Thousand Islands National Wildlife Refuge and Rookery Bay National Estuary Research Reserve, Naples, FL.
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REGULAR PRESENTATIONS

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- Gawlik, D. E. and J. E. Chastant, and K. Kneifl. 2013. Do Trends in Waterbird Nest Effort at Pelican Island National Wildlife Refuge Foretell an Ecosystem in Decline? Association of Field Ornithologists, Lake Placid, FL.
- Gawlik, D. E. and J. E. Chastant. 2013. Do Trends in Waterbird Nest Effort at Pelican Island National Wildlife Refuge Foretell an Ecosystem in Decline? Indian River Lagoon Symposium, Fort Pierce, FL.
- Gawlik, D. E. and R. T. Kingsford. 2012. Hydrologic variability as a global driver of colonial waterbird nesting. The Wildlife Society, Portland, OR.
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- Gawlik, D. E., G. Herring, J. M. Beerens, S. Lantz, B. Botson, M. I. Cook., R. Pierce. 2011. A synthesis of recent studies showing how prey availability affects wading bird habitat selection, physiology, and reproduction. Joint conference of Association of Field Ornithology, Cooper Ornithological Society, and Wilson Society for Ornithology, Kearney, NE.
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Gawlik, D. E., and R. D. Slack. 1994. Processes affecting the distribution and abundance of geese. The Wildlife Society, Albuquerque, NM.

Gawlik, D. E., R. D. Slack, J. A. Thomas, and D. N. Harpole. 1994. Temporal trends of a bird community: a matter of scale. Ecological Society of America, Knoxville, TN.

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Gawlik, D. E., and R. D. Slack. 1993. Population and flock dynamics of wintering geese relative to food abundance and predation pressure. American Ornithologists' Union, Fairbanks, AK.

Gawlik, D. E., and R. D. Slack. 1993. The effects of food abundance and predation pressure on population and flock dynamics of winter geese. Gulf Coastal Prairies Symposium, Houston, TX.

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Gawlik, D. E., R. D. Slack, J. A. Thomas, and D. N. Harpole. 1992. Structural changes in the colonial waterbird community of Galveston Bay Estuary. Cooper Ornithological Society, Seattle, WA.

Gawlik, D. E., J. A. Thomas, D. N. Harpole and R. D. Slack. 1992. Status and trends of a colonial waterbird assemblage in the Galveston Bay Estuary. Texas Chapter of The Wildlife Society, Austin, TX.

Gawlik, D. E. 1988. Nesting success and breeding habitat of the loggerhead shrike (*Lanius ludovicianus*) in South Carolina. South Carolina Academy of Sciences, Orangeburg, SC.

Gawlik, D. E. 1987. Nesting success and breeding habitat of the loggerhead shrike in South Carolina. Wilson Ornithological Society, Utica, NY.

Gawlik, D. E. 1986. Winter perch site and habitat use in Loggerhead Shrikes and American Kestrels. Raptor Research Foundation, Gainesville, FL.

CO-AUTHORED PRESENTATIONS

Botta, R. A. and D. E. Gawlik. 2013. A habitat suitability for the White Ibis, Snowy Egret, and Great Egret at Lake Okeechobee, Florida. Florida Chapter of The Wildlife Society, Melbourne, FL.

Chastant, J. E. and D. E. Gawlik. 2013. Wading bird physiology and prey availability at Lake Okeechobee. Florida Chapter of The Wildlife Society, Melbourne, FL (**Best Student Paper Award**).

Botta, R. A. and D. E. Gawlik. 2013. Habitat suitability for White Ibis, Snowy Egret, and Great Egret at Lake Okeechobee, Florida. Association of Field Ornithologists, Lake Placid, FL.

Beck, T. J., D. E. Gawlik, and E. V. Pearlstine. 2013. Community Patterns in Treatment Wetlands, Natural Wetlands, and Crop Lands in Florida. Association of Field Ornithologists, Lake Placid, FL.

Petersen, M. L. and D. E. Gawlik. 2013. A model of wading bird nest effort in Florida. Association of Field Ornithologists, Lake Placid, FL.

Botson, B. A. and D. E. Gawlik. 2013. Hydrologic parameters that predict wading bird nesting effort. Association of Field Ornithologists, Lake Placid, FL.

Klassen, J. A. and D. E. Gawlik. 2013. Wading bird prey selection and nesting colony survival as a function of hydrology. Association of Field Ornithologists, Lake Placid, FL.

Green, L. R., D. E. Gawlik, and B. E. Lapointe. 2013. Which seagrass species provides better foraging habitat for wading birds? Indian River Lagoon Symposium, Fort Pierce, FL.

Calle, L., D. E. Gawlik, Z. Xie, and B. Johnson. 2012. Predicted changes in foraging habitat of the Little Blue Heron (*Egretta caerulea*) as a function of sea level rise in the Great White Heron National Wildlife Refuge. North American Ornithological Conference, Vancouver, B.C. (**Best Student Paper Award from Association of Field Ornithologists**).

Chastant, J. and D. E. Gawlik. 2012. Wading bird stress response to prey availability in a managed lake ecosystem. North American Ornithological Conference, Vancouver, B.C.

Klassen, J. A. and D. E. Gawlik. 2012. Prey switching by wading birds as an alternative foraging strategy in unpredictable environments. North American Ornithological Conference, Vancouver, B.C.

Botson, B. A. and D. E. Gawlik. 2012. Quantifying the effect of water-level fluctuations on nest effort of White Ibis, Wood Storks and Great Egrets. North American Ornithological Conference, Vancouver, B.C.

Calle, L., D. E. Gawlik, Z. Xie, and B. Johnson. 2012. Predicted changes in foraging habitat of the Little Blue Heron (*Egretta caerulea*) as a function of sea level rise in the Great White Heron National Wildlife Refuge. Ecological Society of America conference, Portland, OR.

Beerens, J. M., E. Noonburg, D. E. Gawlik, and D. Donalson. 2012. Wading bird foraging trade-offs in response to the production and concentration of prey. Ecological Society of America conference, Portland, OR.

Chastant, J. and D. E. Gawlik. 2012. Wading bird stress response to prey availability in a managed lake ecosystem. Florida Chapter of The Wildlife Society, Ocala, FL.

Klassen, J. A. and D. E. Gawlik. 2012. Hydroperiod, food, and competitor density differentially influence the body condition of Everglades' fish and crayfish. Florida Chapter of The Wildlife Society, Ocala, FL, (**Best Student Paper Award**).

Calle, L., D. E. Gawlik, Z. Xie, and B. Johnson. 2012. Predicted changes in foraging habitat of the Little Blue Heron (*Egretta caerulea*) as a function of sea level rise in the Great White Heron National Wildlife Refuge. Florida Chapter of The Wildlife Society, Ocala, FL.

Chastant, J. E. and D. E. Gawlik. 2012. Wading bird stress response to prey availability in a managed lake ecosystem. INTECOL International Wetlands Conference, Orlando, FL.

Klassen, J. A. and D. E. Gawlik. 2012. Hydroperiod, resources, and competitor density differentially influence the body condition of Everglades' fish and crayfish. INTECOL International Wetlands Conference, Orlando, FL.

Beerens, J. M., E. Noonburg, D. E. Gawlik, and D. Donalson. 2012. Generating CERP performance measures from spatio-temporal habitat suitability indices. INTECOL International Wetlands Conference, Orlando, FL.

Beerens, J. M., E. Noonburg, D. E. Gawlik, and D. Donalson. 2012. Wading bird foraging trade-offs in response to the production and concentration of prey. INTECOL International Wetlands Conference, Orlando, FL.

Gawlik, D. E., Z. Xie, T. Wilmers. 2011. Feasibility of evaluating the impacts of sea level rise on foraging habitats of the Little Blue Heron in the Great White Heron National Wildlife Refuge. Conference on sea level rise and the Florida Keys, Duck Key, FL.

Botson, B. A., D. E. Gawlik, and J. C. Trexler. 2011. Modeling trophic linkages with wading bird prey concentrations: turning ecosystem attributes into wading bird food. Waterbird Society Conference, Grand Isle, NE.

Petersen, M. L., D. E. Gawlik, and M. I. Cook. 2011. Foraging habitat parameters: preferences of Everglades wading birds. Waterbird Society Conference, Grand Isle, NE.

Beerens, J. M., Dale E. Gawlik, and Erik Noonburg. 2011. Modeling flexible habitat selection of wading birds in dynamic wetlands. Waterbird Society Conference, Grand Isle, NE.

Botta, R. A., and D. E. Gawlik. 2011. The effects of lake stage and marsh elevation on wading bird nesting effort at Lake Okeechobee, Florida. Waterbird Society Conference, Grand Isle, NE.

Farmer, B. R., B. A. Botson, T. J. Beck, and D. E. Gawlik. 2011. Composition of wading bird foraging flocks as indicators of prey community structure in the Everglades. Florida Chapter of The Wildlife Society, Safety Harbor, FL.

Botson, B. A., D. E. Gawlik, and J. C. Trexler. 2011. Modeling trophic linkages with wading bird

prey concentrations: turning ecosystem attributes into wading bird food. Florida. Florida Chapter of The Wildlife Society, Safety Harbor, FL, (**Best Student Paper Award**).

Botta, R. A., and D. E. Gawlik. 2011. The effects of lake stage and marsh elevation on wading bird nesting effort at Lake Okeechobee, Florida. Florida Chapter of The Wildlife Society, Safety Harbor, FL.

Botson, B. A., D. E. Gawlik, and J. C. Trexler. 2011. Modeling trophic linkages with wading bird prey concentrations: turning ecosystem attributes into wading bird food. Joint conference of Association of Field Ornithology, Cooper Ornithological Society, and Wilson Society for Ornithology, Kearney, NE.

Petersen, M. L., D. E. Gawlik, and M. I. Cook. 2011. Foraging Habitat Parameters: Preferences of Everglades Wading Birds. Joint conference of Association of Field Ornithology, Cooper Ornithological Society, and Wilson Society for Ornithology, Kearney, NE.

Beerens, J. M., Dale E. Gawlik, and Erik Noonburg. 2011. Modeling flexible habitat selection of wading birds in dynamic wetlands. Joint conference of Association of Field Ornithology, Cooper Ornithological Society, and Wilson Society for Ornithology, Kearney, NE.

Botta, R. A., and D. E. Gawlik. 2011. The effects of lake stage and marsh elevation on wading bird nesting effort at Lake Okeechobee, Florida. Joint conference of Association of Field Ornithology, Cooper Ornithological Society, and Wilson Society for Ornithology, Kearney, NE.

Parker, A. D., J. C. Trexler, D. E. Gawlik, and B. A. Botson. 2011. Environmental filters of wet-season aquatic communities into dry-season pools of the Florida Everglades. Ecological Society of America conference, Austin, TX.

Beck, T. J., D. E. Gawlik, E. V. Pearlstine. 2010. The importance of treatment wetlands as avian habitat in South Florida. Greater Everglades Ecosystem Restoration Conference, Naples, FL.

Botta, R. A. and D. E. Gawlik. 2010. Effects of lake stage and marsh elevation on wading bird nesting effort at Lake Okeechobee. Greater Everglades Ecosystem Restoration Conference, Naples, FL.

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Beerens, J. M., D. E. Gawlik, and M. I. Cook. 2010. Resource selection functions as an empirical approach to developing a wading bird habitat suitability index (HSI). Greater Everglades Ecosystem Restoration Conference, Naples, FL.

Calle, L. and D. E. Gawlik. 2010. Anthropogenic resource utilization in the diet of the Sacred Ibis, *Threskiornis aethiopicus*, a non-native wading bird in southeastern Florida, USA. Greater Everglades Ecosystem Restoration Conference, Naples, FL.

Petersen, M. L. and D. E. Gawlik. 2010. Foraging habitat preferences of Everglades' wading birds. Florida Chapter of The Wildlife Society, Tallahassee, FL.

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Botta, R. A. and D. E. Gawlik. 2010. Effects of lake stage and marsh elevation on wading bird nesting effort at Lake Okeechobee. Florida Chapter of The Wildlife Society, Tallahassee, FL.

Beerens, J. M., D. E. Gawlik, G. Herring, and M. I. Cook. 2009. Dynamic resource selection by two

wading bird species with divergent foraging strategies in a seasonally fluctuating wetland. Waterbird Society. Cape May, NJ (invited).

Beck, T. J., D. E. Gawlik, and E. V. Pearlstine. 2009. Avian abundance and diversity as restoration metrics in the Florida Everglades (USA): more is not better. Society for Ecological Restoration International, Perth, Australia.

Botson, B. A. and D. E. Gawlik. 2009. Empirical support for the key trophic hypothesis underlying the restoration of in the Florida Everglades, USA. Society for Ecological Restoration International, Perth, Australia.

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Lantz, S. M. and D. E. Gawlik. 2008. The effects of vegetation and water depth on wading bird foraging site selection and foraging success in the Everglades. Joint meeting of the American Ornithologist's Union and Cooper Ornithological Society, Portland, OR.

Beerens, J. M. and D. E. Gawlik. 2008. Resource selection of two wading bird species with divergent foraging strategies. Joint meeting of the American Ornithologist's Union and Cooper Ornithological Society, Portland, OR.

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Botson, B. A., D. E. Gawlik, and J. C. Trexler. 2008. The effects of hydrological variation on seasonal wading bird prey concentrations in the Everglades. Greater Everglades Ecosystem Restoration Planning, Policy and Science Meeting, Naples, FL.

Lantz, S. M. and D. E. Gawlik. 2008. The effects of vegetation and water depth on wading bird foraging site selection and foraging success in the Everglades. Greater Everglades Ecosystem Restoration Planning, Policy and Science Meeting, Naples, FL.

Botson, B. A., D. E. Gawlik, and J. C. Trexler. 2008. The effects of hydrological variation on seasonal wading bird prey concentrations in the Everglades. The Wildlife Society, Miami, FL.

Beerens, J. M. and D. E. Gawlik. 2008. Habitat selection of two wading bird species with divergent foraging strategies. The Wildlife Society, Miami, FL.

Herring, G. and D. E. Gawlik. 2008. Physiological responses of pre-breeding adult Great Egret and White Ibis to contrasting habitat conditions. The Wildlife Society, Miami, FL.

Beerens, J. M., D. E. Gawlik, G. Herring, and T. Beck. 2007. Movements of two wading bird species with divergent foraging strategies in the Everglades. Cooper Ornithological Society, Moscow, ID (poster).

Botson, B. A. and D. E. Gawlik. 2007. The effects of hydrological variation on seasonal wading bird prey concentrations in the Everglades. Cooper Ornithological Society, Moscow, ID.

Heidemann, P.M., D.E. Gawlik and L.G. Pearlstine. 2007. A landscape quality index for the wood stork and white ibis in southwestern Florida (part 1: unit model). National Conference on Ecosystem Restoration, Kansas City, MO (poster).

Herring, G. and D. E. Gawlik. 2007. Constraints of landscape level prey availability on physiological condition and productivity of Great Egrets and White Ibises in the Florida Everglades. American

Ornithologist's Union, Laramie, WY.

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Marx, D. E. and Gawlik, D. E. 2007. The importance of private lands to the conservation of colonial waterbirds breeding at Lake Okeechobee, Florida, USA. Florida Chapter of the Wildlife Society, St. Petersburg, FL.

Beerens, J. M. and D. E. Gawlik. 2006. Resource use and movements of breeding great egrets and white ibises in the Everglades. North American Ornithological Conference, Veracruz, Mexico (poster).

Botson, B. A., R. L. Harris, and D. E. Gawlik. 2006. Seasonal wading bird prey concentrations in the Florida Everglades. North American Ornithological Conference, Veracruz, Mexico (poster).

Heidemann, P. M., B. Botson, L. Pearlstine, Z. Shang, R. Harris, D. E. Gawlik, F. Mazzotti and A. Higer. 2006. Application of the Everglades Depth Estimation Network (EDEN) to monitoring and restoration. Greater Everglades Ecosystem Restoration Conference, Orlando, FL.

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Marx, D. E. and Gawlik, D. E. 2006. The importance of private lands to the conservation of colonial waterbirds breeding at Lake Okeechobee, Florida, USA. North American Ornithological Conference, Veracruz, Mexico.

Herring, G. and D. E. Gawlik. 2005. Constraints of landscape level prey availability on physiological condition and productivity of Great Egrets and White Ibises in the Florida Everglades. Waterbird Society, Jekyll Island, GA.

Herring, G., D. E. Gawlik, R. L. Harris, B. A. Botson, and B. Garrett. 2004. Assessing aquatic fauna seasonal concentrations in the Florida Everglades. Society for Restoration Ecology, Victoria, British Columbia.

STUDENT PUBLICATIONS FROM THE GAWLIK LAB

Herring, G. and H. E. Kirk. 2007. Commensal feeding of Great Egrets with black-tailed deer. *Western Birds* 38:299-302.

Herring, G. and H. E. Kirk. 2007. Novel Snowy Egret foraging behavior. *Wilson Journal of Ornithology*. 119:118-119.

Herring, G., E. M. Call and M. D. Johnston. 2006. A non-indigenous wading bird breeding in the Florida Everglades: the Sacred Ibis. *Florida Field Naturalist* 34:4-8.

Herring, G., M. D. Johnston, and E. M. Call. 2005. Intraspecific predation in juvenile White Ibis. *Waterbirds* 28:531-532.

Herring, G. 2006. "Book Review" Spatial ecological-economic analysis for wetland management. J. C. J. M. van den Bergh, A. Barendregt, and A. J. Gilbert. *Journal of Wildlife Management* 70:892.

Spatial patterns of species diversity provide information about the mechanisms that regulate biodiversity at different scales (Levin, 1992; Gaston and Blackburn, 2000; Hillebrand and Blenckner, 2002; Brown et al., 2002). For instance, these patterns can offer valuable clues to the relative influence of dispersal limitation, environmental heterogeneity, and environmental ecological interactions (competition and predation affect niche partitioning). Thus, the species richness in local assemblages can be regulated by local factors (such as competition, disturbance, abiotic conditions) and by regional factors (such as history of climate, evolution and migration). Therefore, the importance of regional and local processes has been derived from the analysis of patterns. Competition and predation are key interactions between species, and are major foci of thought and study in community ecology. They are believed to be major forces structuring natural communities. Niches define patterns of linkages between species, their resources, and their natural enemies. These patterns include how linkages change over time, and between different spatial locations, and define mechanisms by which similar species are able to coexist by their effects on competition and predation relationships. The human element in the environment has profound effects on these phenomena. Two of them, interference competition and exploitation competition, are categorized as real competition. A third form, apparent competition, is not. Interference competition occurs directly between individuals, while exploitation competition and apparent competition occur indirectly between individuals (Holomuzki et al. 2010) (Figure 1). Figure 1: The three major types of competitive interactions. Another interaction that is much like predation is herbivory, which is when an individual feeds on all or part of a photosynthetic organism (plant or algae), possibly killing it (Gurevitch et al. 2006). An important difference between herbivory and predation is that herbivory does not always lead to the death of the individual.