

*CURRICULUM VITAE*  
**DAVID L. ANDERSON**  
Ph.D. Candidate - Ornithology

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**ECOLOGICAL FIELD RESEARCH**

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**AVIAN ECOLOGY IN FOREST CANOPIES** • *Louisiana State University*. 2004 to present  
*Baton Rouge, Louisiana/Pico Bonito National Park, Honduras.*

My dissertation research focuses on the community ecology of canopy-living birds. My research is organized around three themes: 1) testing and improving methods for studying canopy birds, 2) unifying hypotheses on the structure and organization of canopy bird assemblages, and 3) understanding factors that maintain high levels of bird diversity in tropical forest canopies.

**DISTRIBUTION AND ECOLOGY OF THE HONDURAN EMERALD** • *Louisiana State University*. 2007 to present

I work as sole ornithologist on the Honduran Emerald Working Group in an effort to describe the distribution and ecology of this critically endangered species and sole Honduran endemic. Our efforts lead to the rediscovery of the species in western Honduras after 73 years without observation, and a proposal before the U.S. Department of the Interior to list the species as critically endangered under the Endangered Species Act of 1973.

**CERULEAN WARBLER MIGRATION ECOLOGY** • *Louisiana State University*. 2005 to 2007

Co-principal Investigator with Melinda Welton, Gulf Coast Bird Observatory.

Ecology & Conservation: This is a multi-year project designed to elucidate the distribution and ecology of the Cerulean Warbler during its migratory stopover in northern Central America. The project has been conducted in Honduras, Belize, Guatemala and southern Mexico and involved the collaboration of agencies and biologists from those and other countries. We have amassed the largest data set for Cerulean Warblers outside North America.

Human Development: We conduct workshops in the host countries in every year of the project that focus on the ecology and conservation of migrant songbirds and the standardization of survey methods.

**DIURNAL RAPTOR DISTRIBUTION AND ECOLOGY** • *The Peregrine Fund*. 1999

*Boise, Idaho/Tawahka Biosphere Reserve, Honduras.*

Field Biology: As sole field biologist, I coordinated all field work in an Indian village two days travel by river from nearest road; surveyed for presence and breeding by diurnal raptors; documented occurrence of rare mammals and birds; mapped trails and limits of indigenous agriculture/forest use; documented all work using GPS, photography, and field journals; authored year-end project reports.

Supervision and Training: Trained Tawahka Indian technicians in principles of tree climbing and wildlife surveys.

**RAPTOR DIVERSITY AND LANDSCAPE HETEROGENEITY** • *Department of Biology, Boise State University.* 1995-1998

*Boise, Idaho/Río Plátano Biosphere Reserve, Honduras.*

Project Development: Designed field research to examine the relationship between forest fragmentation from indigenous shifting agriculture and diurnal raptor diversity in a lowland tropical rainforest; untangled logistical problems associated with creating a project in a developing country 2,500 miles from home; developed a project budget, raised all funding, and purchased all equipment.

Project Supervision: Directed crews of 3-10 people in the location of survey plots, raptor identification and surveys, and vegetation analyses; trained local technicians in tree climbing, orienteering, and data collection.

Personal Accomplishments: I conducted this project in one of the most remote regions of Central America while living in a village of <350 Pech and Miskito Indians, completely without modern amenities or contact with the outside world and without re-supply. All work was carried out in Spanish or local Indian languages and all travel was by dugout canoe or on foot.

## **WILDLIFE MANAGEMENT AND CONSERVATION**

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**WILDLIFE TECHNICIAN** • *Idaho Department of Fish and Game.* 2001-2003

*Deer Parks Wildlife Mitigation Unit, Menan, Idaho.*

Habitat Management: Designed and conducted habitat management and restoration activities on a 2,500-acre former cattle ranch; developed and executed monitoring protocol to obtain baseline data and assess effects of management activities on vegetation and wildlife populations; operated heavy machinery and power tools during habitat work and building construction/demolition. I mapped vegetation communities of entire refuge using Arc View GIS software; contracted services and purchasing using official state purchasing protocol.

Supervision: Supervised seasonal employees and inmate work crews in construction and demolition projects, habitat maintenance, building maintenance.

### **FEDERAL AND STATE AGENCIES, NON-PROFITS**

In addition to working as a wildlife technician with Idaho Fish and Game, I have held appointments with state and federal agencies and a non-profit conservation organization in four western states. I have worked on a wide variety of projects: breeding bird surveys in old-growth and managed coniferous forests; demographic studies of diurnal and nocturnal raptors; monitored nest success and mapped Least Tern breeding colonies; assessed populations of wild resident and anadromous salmonids and their habitats; monitored a reintroduced population of Bald Eagles on the California Channel Islands; feral pig removal.

<i>Idaho Department of Fish and Game, Nampa.</i>	2000
<i>Oregon Department of Fish and Wildlife, Roseburg.</i>	1994
<i>Institute for Wildlife Studies, Arcata, California.</i>	1991, 1994, 1996
<i>US Forest Service, California, Montana, and Arizona.</i>	1987, 1989, 1990
<i>Humboldt State University, Arcata, California.</i>	1986, 1988
<i>California Department of Fish and Game, Rancho Cordova.</i>	1986

**PROTECTED AREAS SPECIALIST • Peace Corps.** 1991-1993

*Sierra de Agalta National Park, Honduras.*

Field Research: Conducted ground surveys into remote rain and cloud forests to determine extent of resource exploitation; mapped areas of primary and disturbed forests and established use zones; surveyed avifauna in the park and surrounding areas and created a bird list of >300 species; coordinated with foreign researchers to survey park flora and fauna.

Program Development and Implementation: Provided on-the-job training to park staff in all aspects of biological survey, forest ecology, protected areas philosophy and management; trained park staff in techniques of technical writing, resource planning, and writing funding proposals; supervised crews of 5-18 men in the construction of trails.

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**TEACHING EXPERIENCE**

*Biology Department, Louisiana State University, Baton Rouge, Louisiana.* 2004-present.

I currently teach Biological Inquiries, a general biology course for non-majors, to labs of 25 students. This class emphasizes student-based inquiry, with the bulk of the grade weighted by independent research. Lecture topics range from "what is life?" to homeostasis and photosynthesis.

*Department of Biology, Boise State University, Boise, Idaho.* 1995-1998

Supervised groups of 25 students in laboratory experiments on general biology topics such as photosynthesis and cellular respiration; led field experiments on vegetation and wildlife sampling techniques; prepared lectures and taught classes of 40-230 students.

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**EDUCATION**

Ph.D. Candidate, Biological Sciences (**Ornithology**). 2004 to present.

*Advisor: Dr. J. V. Remsen, Jr.*

Department of Biological Sciences, Louisiana State University, Baton Rouge, Louisiana.

Dissertation Focus: Avian community diversity over space and time in tropical forest canopies.

M.S. Biological Sciences (**Raptor Biology**), December 1998.

*Advisor: Dr. Marc J. Bechard*

Department of Biology & Raptor Research Center, Boise State University, Boise, Idaho.

*Thesis: Avian Diversity in the Río Plátano Biosphere Reserve, Honduras*

B.S. Natural Resource Management (**Wildlife Management**), May 1991.

College of Natural Resources, Humboldt State University, Arcata, California.

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**COMMUNITY SERVICE AND LEADERSHIP**

Lead Solicitor – Petition before the U.S. Department of the Interior to list the Honduran Emerald (*Amazilia luciae*) as an endangered species. October 2008.

Country Coordinator for Honduras, North American Birds Regional Reports – 2003-present.

Co-Leader, LSU Birdathon, 2004.

Peace Corps, Honduras – 1991-1993.

Team Captain, Western Student Wildlife Society Conclave – 1989, 1991.

Co-Chair, Western Student Wildlife Society Conclave, Humboldt State University – 1990.

President, Conservation Unlimited, Humboldt State University – 1988.

Secretary, Conservation Unlimited, Humboldt State University – 1985-1986.

Volunteer Tour Leader, Humboldt State University Wildlife Research Facility – 1984-1991.

## GRANTS AND AWARDS

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Conservation of the Honduran Emerald (*Amazilia luciae*) in the Department of Santa Barbara, Honduras. • 2009. \$300,000. Mitigation project undertaken by the Empresa Propietaria de la Red Eléctrica.

Ecology of a canopy bird community in a lowland rainforest • *Pb.D. dissertation fieldwork. 2006-2007.* \$24,650 received from USAID, Cleveland Metroparks Zoo, USFWS Neotropical Migratory Bird Conservation Act, LSU Museum of Natural Science, Global Forest Science, Eagle Optics, and The Explorers Club.

Cerulean Warbler Migration Ecology. • *Co-principle investigator with Melinda Welton. 2005-2007.* >\$40,000 received from The Nature Conservancy, US Fish and Wildlife Service Neotropical Migratory Bird Conservation Act, The American Bird Conservancy, Lyndhurst Foundation, Tucker Foundation, Linnaean Society of London, the Birder's Exchange, and Optics for the Tropics.

Avian diversity in the Río Plátano Biosphere Reserve • *M.S. fieldwork in Honduras 1996-1997.* \$11,000 from Lincoln Park Zoo Scott Neotropic Fund, American Bird Conservancy, Hawk Mountain, BSU Raptor Research Center, and The Peregrine Fund.

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*Virginia L. Moww Award*, Museum of Natural Science, Louisiana State University. 2005. This award is presented annually to the outstanding new ornithology graduate student at the beginning of his or her second year to recognize enthusiasm, hard work, and the promise to be an outstanding scholar in avian biology.

*Eugene Cardiff Award* for curatorial achievement, Louisiana State University Museum of Natural Science. 2004-2005 school year.

*Teaching Assistant of the Year.* Department of Biology, Boise State University. 1998.

## TRAINING SEMINARS PROVIDED

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Wildlife monitoring in protected areas: recollection and standardization of data. *In Spanish.* La Ceiba, Honduras. 28-30 June 2006. Co-leader and Instructor. Sponsored by the US Agency for International Development.

Modern ornithology and the importance of specimen collections. *In Spanish.* Escuela Agrícola Panamericana Zamorano, Honduras. 15 March 2007. Principle Speaker.

Ecology of and surveys for Cerulean Warbler and other migratory songbirds, I. *In Spanish.* La Tigra National Park, Honduras. 1 April 2005. Co-leader with Melinda Welton.

Ecology of and surveys for Cerulean Warbler and other migratory songbirds, II. *In Spanish.* Pico Bonito National Park, Honduras. 4 April 2006. Co-leader with Melinda Welton.

## SELECTED TALKS

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Anderson, D. L. 2009. Comparative structure and organization of canopy bird assemblages in Honduras and Brazil: an ecological perspective. Oral presentation, American Ornithologist's Union annual meeting, Philadelphia, Pennsylvania.

Anderson, D. L. 2008. Ground-based vs. canopy-based methods: lessons for the study of canopy birds in lowland tropical forests. Oral presentation, Joint Ornithological Meeting, Portland, Oregon.

Anderson, D. L., and M. J. Welton. 2008. Migration Stopover of the Cerulean Warbler (*Dendroica cerulea*) in northern Middle America. Poster, Wilson Ornithological Society annual meeting, Mobile, Alabama.

Anderson, D. L. 1998. Diurnal raptors, landscape heterogeneity, and shifting cultivation in lowland tropical rain forest, northeastern Honduras. Oral presentation at Joint Ornithological Meeting, St. Louis, MO.

Anderson, D. L. 1997. Raptor studies in the Moskitia region of eastern Honduras. Key Note Address, annual banquet of the Golden Eagle Chapter, National Audubon Society, Boise, Idaho.

## PUBLICATIONS

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*Peer Reviewed –*

**Anderson, D. L.**, P. House, R. Hyman, and R. Hawkins. *In review*. Ecology, distribution, and conservation status of the Honduran Emerald (*Amazilia luciae*).

**Anderson, D. L.** 2009. Ground versus canopy methods for the study of birds in tropical forest canopies: Implications for ecology and conservation. *Condor* 111:226-237.

Shoch, D. S., and **Anderson D. L.** 2007. Status of tern colonies in the Honduras Bay Islands. *Waterbirds* 50:403-411.

**Anderson, D. L.**, D. A. Wiedenfeld, M. J. Bechard, and S. J. Novak. 2004. Avian diversity in the Moskitia region of Honduras. *Ornitologia Neotropical* 15:447-442.

Thorstrom, R., R. Watson, A. Baker, S. Ayers, and **D. L. Anderson**. 2002. Preliminary ground and aerial surveys for Orange-breasted Falcons in Central America. *Journal of Raptor Research* 36:39-44.

**Anderson, D. L.** 2001. Landscape heterogeneity and diurnal raptor diversity in Honduras: The role of indigenous shifting cultivation. *BIOTROPICA* 33:511-519.

**Anderson, D. L.** 2000. Notes on the breeding, distribution, and taxonomy of the Ocellated Poorwill (*Nyctriphynus ocellatus*) in Honduras. *Ornitologia Neotropical* 11:233-238.

McCarthy, T. J., **D. Anderson**, and G. Cruz D. 1999. Tree Sloths (Mammalia: Xenartha) in Nicaragua and Honduras, Central America. *Southwestern Naturalist* 44:410-414.

**Anderson, D. L.**, M. Bonta, and P. Thorn. 1998. New and noteworthy bird records from Honduras. *Bulletin British Ornithological Club* 118:178-183.

*Invited Chapter –*

**Anderson, David L.**, and C. Devenish. *In press*. Important bird areas of Honduras. *In* Important bird areas of the Americas. Birdlife International, Cambridge.

*Popular Reading –*

**Anderson, David L.** 2008. Rain Bird: Dispersing seeds and drawing tourists, a sought-after bird helps preserve a forest in Honduras. *Natural History* 117(10):36-39 (Dec. 2008/Jan. 2009).

Bonta, M., and **D. L. Anderson**. 2002. *Birding Honduras: A checklist and guide*. EcoArte, Tegucigalpa, Honduras. 186 pp.