

Graduate Studies in Avian Ecology at Oregon State University



Oregon State University (<http://oregonstate.edu/>) is a land grant institution established in 1848 in Corvallis, Oregon (population ~ 50,000). Located approximately 80 miles south of Portland, 50 miles east of the Pacific Ocean, and 60 miles from the Cascade mountains, OSU is perfectly situated for field and laboratory investigations in many ecosystems and on innumerable topics in ornithology. The departments listed below offer M.S. and Ph.D. degrees. In addition, graduate students in ornithology benefit from the numerous agency cooperators on campus. Thus, graduate faculty members can include employees of the U.S. Geological Survey, Environmental Protection Agency, U.S. Forest Service, National Oceanic and Atmospheric Administration, etc.

Facilities:

Oregon State University's **Hatfield Marine Science Center** (<http://hmsc.oregonstate.edu/>) is a research and teaching facility located in Newport, Oregon on the Yaquina Bay estuary, about one mile from the open waters of the Pacific Ocean and 50 miles from Corvallis. HMSC plays an integral role in programs of marine and estuarine research and instruction and as a laboratory facility serving resident scientists as a base for far-ranging oceanographic studies.

The **Center for Gene Research and Biotechnology** (<http://www.cgrb.orst.edu/>) serves the biosciences research community at Oregon State University with the ultimate goals of improving health, sustaining natural and agricultural resources, and preserving environmental quality. The Center offers leadership and services to faculty, staff and students through core facilities, seminars, and retreats. It also provides a focal point for researchers to make contacts, initiate collaborations, and establish new technologies in their own laboratories.

Nestled in the central Cascade Range of Oregon, the **H.J. Andrews Experimental Forest** (<http://www.fsl.orst.edu/lter/>) is a living laboratory that provides unparalleled opportunities for the study of forest and stream ecosystems. During the last 21 years as a part of the National Science Foundation Long Term Ecological Research (NSF-LTER) program, the Andrews Experimental Forest has become a leader in the analysis of forest and stream ecosystem dynamics. Long-term field experiments and measurement programs have focused on climate dynamics, streamflow, water quality, and vegetation succession. Currently researchers are working to develop concepts and tools needed to predict effects of natural disturbance, land use, and climate change on ecosystem structure, function, and species composition.

USGS Forest and Rangeland Ecosystem Science Center (<http://fresc.usgs.gov/>): FRESC combines research scientists and support staff originating from the Bureau of Land Management, National Park Service, and U.S. Fish and Wildlife Service in Oregon, Washington, and Idaho. The result is an integrated facility focused on providing biological information to land managers in the Department of the Interior and others with natural resource concerns in the western U.S. and adjacent states and Canadian provinces.

USGS Oregon Cooperative Fish and Wildlife Research Unit (https://coopunits.org/Units/OR_FW): The Wildlife Program of the Oregon Coop. Unit trains graduate students and conducts wildlife research of interest to our state and federal cooperators as well as other natural resource management agencies/groups using students, faculty, research assistants, and facilities of Oregon State University. The Unit interprets and disseminates research results to the scientific community, natural resource agencies, and the public and provides technical assistance to natural resource managers. Current emphasis in the Unit focuses on Pacific Northwest forest-wildlife management issues and migratory waterbirds.

Faculty Associated with Ornithology:

- Robert G. Anthony (Department of Fisheries and Wildlife, USGS Oregon Coop. Unit): population biology/demography, particularly of raptors such as Spotted Owls; contaminants.
- Bruce D. Dugger (Department of Fisheries and Wildlife): Ecology and conservation of waterbirds, particularly waterfowl; restoration and management of wetlands; behavioral ecology.
- Katie M. Dugger (Department of Fisheries and Wildlife): Avian population ecology particularly the effects of climate and global climate change on survival and reproductive, foraging ecology, waterbird management and conservation
- W. Daniel Edge (Department of Fisheries and Wildlife): avian habitat relationships.
- Paul Farber (Departments of History and Zoology): history of ornithology and natural history -- bird-watcher watcher.
- Eric D. Forsman (Department of Fisheries and Wildlife, U.S. Forest Service Pacific Northwest Forest Experiment Station): Ecology of forest birds and mammals, spotted owls, pygmy owls, barred owls, dispersal, population analysis, home range, habitat selection, diets, forest management.
- Jennifer Gervais (Department of Fisheries and Wildlife): ecotoxicology and population dynamics, ecological risk assessment, and conservation with emphasis on vertebrates including birds. Specific skills in demographic rate estimation, population modeling, and habitat selection.

- Joan Hagar (Department of Fisheries and Wildlife, USGS FRESA): Forest bird ecology, bird-insect interactions, birds in forest foodwebs, effects of forest management on bird habitat, birds in Willamette Valley oak woodlands, birds in riparian habitats.
- Susan M. Haig (Department of Fisheries and Wildlife, USGS FRESA): conservation genetics, behavioral ecology including mating systems and dispersal patterns, shorebird and wetland landscape conservation, conservation of endangered Micronesian avifauna.
- Charles J. Henny (Department of Fisheries and Wildlife, USGS FRESA): environmental contaminants, long-term biomonitoring, fish-eating birds and raptors.
- Meta M. Landys (Department of Zoology): environmental endocrinology of birds, hormones in the support of behavior and physiology during avian migration and breeding, hormonal control of seasonal aggression.
- James R. Larison (Department of Fisheries and Wildlife, Hatfield Marine Science Center): avian ecology and the biogeochemistry of metals.
- Patricia L. Kennedy (Department of Fisheries and Wildlife): ecology and management of forest and grassland avifauna; regulation of avian populations; raptor ecology and management; effects of livestock grazing on avian populations and communities.
- Arch McCallum (Applied Bioacoustics, Inc.): Bioacoustics, particularly conservation applications. Conservation biology, especially theory and methodology of monitoring and habitat assessment. Flammulated Owls. Evolution of the Paridae.
- David K. Mellinger (Hatfield Marine Science Center) acoustic monitoring of wildlife populations; nocturnal flight calls of migrating birds; signal processing methods for automatic recognition of animal sounds.
- Fred Ramsey (Department of Statistics, emeritus): Statistical analyses, author of *Birding Oregon*.
- W. Douglas Robinson (Department of Fisheries and Wildlife): avian conservation, aridlands ecology, tropical ecology, passerines.
- Tara Robinson (Department of Fisheries and Wildlife): avian ecology, behavioral ecology, tropical ecology, genetics.
- Daniel Roby (Department of Fisheries and Wildlife, USGS Oregon Coop. Unit): Physiological ecology, reproductive energetics, seabird/fisheries interactions, ecology of colonial waterbirds, restoration following oil spills.
- Daniel K. Rosenberg (Department of Fisheries and Wildlife): population, space-use, and landscape ecology of vertebrates in modified ecosystems, conservation biology, statistical ecology.

For Further Information:

Graduate Admissions: 541-737-4881, http://oregonstate.edu/dept/grad_school/

Fisheries and Wildlife Department: 541-737-4531, <http://fw.oregonstate.edu/>

Forest Science Department: 541-737-2244, <http://www.cof.orst.edu/cof/fs/>

History Department: 541-737-3421, <http://oregonstate.edu/dept/history/>

Statistics Department: 541-737-3366, <http://oregonstate.edu/dept/statistics/>

Zoology Department: 541-737-3705, <http://oregonstate.edu/dept/zoology/>