

ADDRESS

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EDUCATION

California State University - Long Beach (Long Beach, CA)

M.S. in Biology 2007

Thesis: *Natal Dispersal of Barn Owls (Tyto Alba) Banded in Southwestern California: A GIS Study.*

University of Washington (Seattle, WA)

Coursework toward M.S. No degree granted.

Area of Study: Quaternary Paleocology and Pacific Northwest Forest History.

University of Colorado (Boulder, CO)

B.A. in Anthropology and Biology 1987

RESEARCH INTERESTS

Avian ecology, Quaternary paleocology, biogeography, climate change, and natural resource management and policy.

INSTRUCTIONAL EXPERIENCE

Biological Sciences

2002 – present. Adjunct Faculty, Golden West College, Huntington Beach.

Biology 183, Plant Biology: A survey course for biology majors. Topics include: fundamentals of chemistry and biochemistry; cytology, with an emphasis on plant cytology; fundamentals of biological energy: catalysis, cellular respiration and photo- synthesis; Mendelian and molecular genetics; ethnobotany; evolution and speciation; plant ecology; systematics and taxonomy.

Biology 110, Ecology and Field Biology: Ecology and Field Biology for non-majors. A survey of ecology focusing on the structure of and interdependence of communities and the natural environment of southern California.

Biology 100, General Biology lab: Laboratory biology for non-majors. A survey of the major areas of biology including cell biology, genetics, evolution, phylogeny, plant and animal anatomy and physiology, ecology, and behavior.

2007 – 2008. Adjunct Faculty, California State University, Long Beach.

Biostatistics 260 lab: Laboratory statistics. Probability and statistics used in the description and analysis of biological data.

1999 – 2003. Teaching Assistant, California State University, Long Beach.

Biology 200 lab: Laboratory biology for non-majors. A survey of the major areas of biology including cell biology, genetics, evolution, phylogeny, plant and animal anatomy and physiology, ecology, and behavior.

Geographical Sciences

2013 - present . Adjunct Faculty, California State University, Long Beach.

Geog 130, Introduction to Climate and Weather: B1b. Introduction to Earth's atmosphere, weather processes, global climate patterns, drivers of climate change and their interactions with the biotic and abiotic environment. Analysis of how human activities affect weather and climate processes and the patterns of global climate impacts.

Geog 200, Introductory Statistics for Geographers: Laboratory statistics. Introduction to the scientific method in geography, with an emphasis on basic quantitative and qualitative techniques and their applications. Probability and statistics used in the description and spatial analysis of geographical data.

Geog 442, Biogeography: Theories and methods of mapping plant and animal distributions, spatial interaction of species with environmental limiting factors, and the human role in temporal and spatial variation of ecosystems.

2003-2008. 'Guest Lecturer', Department of Geography, California State University - Long Beach.

Geog 486, Research Methods: Team-teacher, ecologist for annual Field Methods trip to Mammoth Mountain California. Responsible for teaching ecological principles of diverse natural environments.

Environmental Science and Policy

2013 - present . Adjunct Faculty, Team Member, California State University, Long Beach.

ESP 400, Environmental Science and Policy Capstone Project: An interdisciplinary evaluation of the physical, biological, social, economic, and legal dimensions of a local environmental issue. Examples include policies to control surface water run-off, policies for marine protected areas, dredging harbors, and developing, preserving, restoring wetlands and estuaries.

Other Experience

2000 California State University - Long Beach Graduate Assistant:
Vertebrate Museum.

POSTER PRESENTATIONS

2007 *Habitat Characteristics Around Barn Owl (Tyto alba) Capture and Recapture Sites in Southwestern California: A GIS Study.*
World Owl Conference, Groningen, Netherlands, October 31- November 4.

A GIS Study of Habitat Preference by Some Juvenile Barn Owl (Tyto alba) in Southwestern California.
Association of Pacific Coast Geographers, Long Beach, CA, October 20.

Los Angeles Harbor Least Tern Nesting Site at Pier 400, San Pedro, California. Domoic Acid seminar, California Department of Fish and Game, San Pedro, CA.

FELLOWSHIPS, AWARDS, and GRANTS

2007 California State University - Long Beach Travel Grant – for World Owl Conference paper presentation, Groningen, Netherlands. \$2500

MISCELLANEOUS PAPERS

2003 *Spotted Dove Distribution and Seasonal Calling Activity in Long Beach, California.*
Unpublished manuscript, BIOL-697 Directed Research, Dr. Charles Collins.

APPLIED AND PROFESSIONAL EXPERIENCE

Master's Thesis Research – Conducted in Southwestern California, 1999 to 2005.

Common Barn Owl (*Tyto alba pratincola*) were leg banded as nestlings and recaptured as adults. By using a GIS to calculate the distance and direction between the nest banding and recapture location, and by quantifying habitat types in both locations, one can better understand the dispersal of juvenile Barn Owl in southwestern, coastal California.

Research focused on issues relating to dispersal and habitat selection in the common Barn Owl. Research included live-trapping, physical data collection, and GIS analysis of demographic and habitat data. Secondary data was collected through archival records of the principal researcher and the Bird Banding Laboratory in Pautuxent, Maryland.

Other Professional Experience - Consulting Biologist and Researcher, 1996 to Present.

2002–present. Field Biologist. Langdon Biological Consulting, Long Beach, CA.

1998–2005. Field Biologist. Harmsworth Associates, Dove Canyon, CA.

1996–1998. Staff Biologist. LSA Associates, Inc., Irvine, CA.

As a consulting biologist at the above firms, principle responsibilities lay in two categories:

- a) promulgation of the Migratory Bird Treaty Act (MBTA), National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) on developed lands, and
- b) by conducting resource and habitat analyses, biological assessments, and habitat conservation practices, on reserve lands.
 - Use Geographic Information Systems (GIS) applied technology for land use and habitat analysis, resource management, and environmental assessment.
 - Implement and monitor compliance of NEPA/CEQA, Habitat Conservation Plans (HCP) and Resource Management Plans (RMP) in the developed areas of Orange county, CA.
 - NEPA/CEQA/HCP Monitoring and implementation included: construction monitoring during project installation, coordination and quality control of plant materials/seed collection prior to and during habitat restoration, regular data collection for maintenance monitoring, and progress analyses for annual reports.
 - Resource and habitat analyses on the open lands in Kern, Los Angeles, Ventura, Orange, Riverside, San Bernardino, and San Diego counties, California included: sensitive species surveys (see below) and wildlife identification, habitat evaluation, small mammal trapping, insect, bird and reptile surveys including the use of pitfall traps and mist nets, and vegetation analyses in diverse floral communities.
 - Help in design and implementation of habitat analyses and protocol surveys for the California least tern, coastal California gnatcatcher, least Bell's vireo, and Quino checkerspot butterfly.

Related Professional Experience

Participated in monitoring and analyzing breeding success of California least tern colonies at the Port of Los Angeles, Pier 400 since 2005 (approximately 3000 hours) and in Marina del Rey in 2012 (approximately 200 hours).

Participated in tree trimming and monitoring programs in Long Beach and Marina del Rey since 2005 (approximately 2500 hours).for impacts to Great Blue Heron and other raptors and passerines in accordance with the Migratory Bird Treaty Act, California Department of Fish and Game Code, and the California Coastal Commission.

Participated as a volunteer at MAPS (Monitoring Avian Productivity and Survivorship) stations in a program conducted by the Institute for Bird Populations, Point Reyes, California.

- This work involves mist net capture, identification, data collection, and banding of passerines (perching birds) in two habitat types: coastal sage scrub/chaparral and natural wetland.

Participated in Nature Conservancy workshops and helped to lead nature walks on the Newport coast and the Santa Ana foothills.

Participated in public fund-raising events held on behalf of local regional parks and natural history associations such as Thomas R. Riley Wilderness Park in Mission Viejo and the Natural History Museum of Orange county in Aliso Viejo.

- This work involves actively trapping birds and bats, and passively collecting mammals and reptiles. These animals are displayed and their natural history is discussed with local residents and other interested citizens prior to release.

PROFESSIONAL AFFILIATIONS AND SERVICES

Society for Conservation Biology

Society for Conservation GIS

Wetland Delineation trained (Wetlands Training Institute) and certified by the U.S. Army Corps of Engineers.

Scientific and Technical Writing Professional Certificate, University of Washington.