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EDUCATION

M.S. Biology, 2008. University of Copenhagen, Denmark.
B.A. Marine Biology, 1999. University of California, Santa Cruz, CA.

EMPLOYMENT HISTORY

2010-Present **Wildlife Ecologist**, Dawn Reis Ecological Studies
2010 **Desert Tortoise monitor**, Garcia and Associates
2010 **Wildlife Biologist**, Live Oak Associates
2009 **Wildlife Biologist**, Save the Habitat
2008 **Wildlife Biologist**, Albion Environmental
2007 **Burrowing Owl Field Biologist**, Wildlife Research Institute
2004-2006 **Graduate Field Research**, University of Copenhagen
2000-2003 **Sea Otter Telemetry Technician**, Monterey Bay Aquarium

SELECTED PUBLICATIONS AND REPORTS

Laursen, I.M. 2009. Danske glenters belastning med miljøgifte og blodparasitter (The impact of Environmental contaminants and blood parasites in red kites in Denmark. Dansk Ornitologisk Forenings Tidsskrift.

Laursen, I.M. 2008. Environmental Contamination, Blood Parasites, and Home Range of the Red Kite (*Milvus milvus*) in Denmark. University of Copenhagen, Denmark. A Master Thesis manuscript. 170 pages.

Rugh, D., J. Breiwick, M. Muto, R. Hobbs, K. Shelden, C. D'Vincent, I. M. Laursen, Reif, S.

Maher, and S. Nilson. 2008. Report of the 2006-2007 census of the eastern North Pacific stock of gray whales. AFSC Processed Rep. 2008-03, 157 p. Alaska Fish. Sci. Cent., NOAA, Natl. Mar. Fish. Serv., 7600 Sand Point Way NE, Seattle WA 98115.

Rugh, D; Muto, M; Hobbs, R; Shelden, K; D'vincent, C; Laursen, I. M; Reif, S; Maher, S; and Nilson, S. 2007. Field report of the 2006/07 census of the Eastern North Pacific stock of gray whales. Report to the IWC Scientific Committee. SC/59/BRG1.

Laursen, I.M., Herzke, D., Rahbek, C. 2006. Polybrominated diphenyl ethers (PBDE) in Danish Red Kites. Poster presented at 26th International Symposium on Halogenated Persistent Organic Pollutants – DIOXIN 2006 in Oslo, Norway.

Laursen, I.M. 2005. I. Felten med Røde Glenter, Tårnfalke og Slørugler. Presentation to the Danish Raptor Group, Jutland, Denmark.

Laursen, I.M. 2005. In the field with Red kites, European kestrel and Barn owls. Presentation to the Norwegian Institute for Air Research, Tromsø, Norway.

Laursen, I.M. 1999. Distribution and abundance of Humpback whales (*Megaptera novaeangliae*) in the Monterey Bay during 1998 - a mark-recapture study via photo-ID. Senior Thesis, University of California, CA.

Laursen, I.M. 2001. Post Ranch Inn, Big Sur California. Marine Mammal Natural History and Conservation. Presentation.

REPRESENTATIVE EXPERIENCE

2009-Present **University of California, Santa Cruz, CA**

- Weekly census of wintering golden-crowned sparrows (*Zonotrichia atricapilla*) to record color band combinations;
- Behavioral observations to ascertain the dominance hierarchy and social interactions between banded individuals;
- Capturing sparrows and brewer's black-birds using potter and walk-in traps as well as processing birds.

2010 **Garcia & Associates, Mojave Desert, CA**

- Clearance surveys, checking the boundary fences and construction monitoring for the threatened desert tortoises (*Gopherus agassizii*).

2010 **Ecological Studies, Carmel Valley, CA**

- Day and night surveys for threatened native California red-legged frogs (*Rana draytonii*) and non-native bullfrogs (*Rana catesbeiana*);
- Sub-permitted to rescue and translocate California red-legged frogs and tadpoles to mitigation pools;
- Seining and dip netting for tadpoles, monitored fish traps for amphibians;
- Removal of non-native bullfrogs and crayfish;
- Monitored work crew when fish traps were being repaired and removed.

2010 **Live Oak Associates, Panoche Valley, CA**

- Wildlife sampling surveys of listed and special-status species in the Panoche Valley for a multi-species occupancy model;
- Species include blunt-nosed leopard lizard (*Gambelia sila*), San Joaquin coachwhip (*Masticophis flagellum ruddocki*), giant kangaroo rat (*Dipodomys ingens*), San Joaquin antelope ground squirrel (*Ammospermophilus nelsoni*), San Joaquin kit fox (*Vulpes macrotis mutica*), American badger (*Taxidea taxus*), and burrowing owl (*Athene cunicularia*);
- Collection of habitat covariate data for vegetation variables using a 1-meter quadrant, and soil texture determination;
- Navigation via maps and GPS to survey areas.

2009 **Save the Habitat, Capitola, CA**

- Weekly monitoring of over-wintering monarch butterflies (*Danaus plexippus L.*) at a property in Capitola, California;

- Monitored the removal of debris and trash by work crew in habitat sensitive areas for fire prevention.
- 2008-2010 **Point Reyes Bird Observatory & California State Parks, Monterey Bay, CA**
- Winter and spring surveys of threatened snowy plovers (*Charadrius alexandrinus*) on Monterey Bay beaches to count number of individuals in flocks and record color band combinations.
- 2008-2010 **Monarch Alert, Ventana Wildlife Society, Pacific Grove, CA**
- Weekly winter surveys to estimated the population size of over-wintering monarch butterflies (*Danaus plexippus L.*) in Pacific Grove;
 - Standardized counts of clusters and loners, height and aspect of clusters, tree species and weather parameters;
 - Tagged and sexed 800 monarch butterflies to understand inter-site movement and spring dispersal patterns.
- 2008-2010 **Southwest Fisheries Science Center (NOAA), Santa Cruz, CA**
- Long term monitoring of juvenile steelhead populations during fall and winter in Santa Cruz county watersheds;
 - Surveys and captures are performed with the use of a backpack electroshocker;
 - Capturing steelhead with dipnets, transport fish to processing station, monitoring health of fish, data recording;
 - Seining of steelhead in creek lagoons.
- 2008 **Albion Environmental, Santa Cruz, CA**
- Surveyed for burrowing owls (*Athene cunicularia*) following the CDFG Burrowing Owl Survey Protocol and Mitigation Guidelines (1993);
 - Installed one-way doors to exclude burrowing owls from construction areas;
 - Conducted bird monitoring at the San Jose International Airport including point count surveys;
 - Surveyed for the invasive yellow starthistle (*Centaurea Solstitialis*);
 - Prepared reports to clients and coordinated survey schedules.
- 2007 **Wildlife Research Institute, Bloom Biological, Manning Biological Research, Imperial Valley, CA**
- Conducted GPS surveys along designated survey routes across the 517,000 acre Imperial Irrigation District's Habitat Conservation Planning Area of active burrows/territories of burrowing owls (*Athene cunicularia*) using mark-recapture methods for population estimate;
 - Trapped and banded owls.
- 2008 **Northern Exploration Services, Anchorage, AK**
- Conducted 10 days of survey for marine mammals onboard a seismic vessel in the Chukchi Sea, AK;
 - Observed for and determined species and numbers of marine mammals exposed to sound pulses and documented reactions of the animals according to compliance regulations set by USFWS and NMFS in order to minimize disturbance;

- Submitted weekly reports and special status species report.
- 2006 **Golden Gate Raptor Observatory, Marin Headlands, CA**
- Trapping and banding birds of prey during migration with the use of mist-nets, dho-gaza, bownets, and lure birds.
- 2006-2007 **National Marine Mammal Laboratory, WA & Intersea Foundation, Carmel, CA**
- Conducted standardized searches for northbound gray whales (*Eschrichtius robustus*) from shore for population estimate;
 - Worked as an observer during the previous censuses of 2000-2001 and 2001-2002.
- 2006-2007 **Monterey Bay Whale Watch, Monterey, CA**
- Provided natural history interpretation to visitors on board vessels during 4-6 hour trips.
- 2004-2006 **Zoological Museum, University of Copenhagen, Denmark**
- Environmental contamination, blood parasite infection, home range, and prey choice preferences of red kites, European kestrels (*Falco tinnunculus*), and barn owls (*Tyto alba*);
 - Fieldwork consisted of nest searching and observation, bird handling, banding, blood, feather and cloacal sample collection, health assessment, morphometric measurements, VHF transmitter attachment, and necropsy;
 - Laboratory work involved analyses for polychlorinated biphenyls, organochlorines, polybrominated diphenyl ethers, essential and non-essential metals, and rodenticides in avian tissues using HPLC, GC-MS, Perkin Elmer FIMS-100, and GC-ECD.
- 2004-2005 **University of Copenhagen, Denmark**
- Red Kite Project Leaders: developed and coordinated a two-year research project, wrote grants and secured funding and sponsorship, established collaboration with five international laboratories in Denmark, England, Norway, and USA, managed the budget and more than 20 international volunteers.
- 2003-2004 **CSU Monterey Bay, CA & Asilomar State Beach, Pacific Grove, CA**
- *Snags and Dead Standing Trees in a Monterey Pine Forest Infected with Pitch Canker Disease*;
 - Survey of Monterey pines (*Pinus radiata*) available to woodpeckers as habitat using GPS and ArcGIS 8.3.
- 2001-2003 **Pacific Cetacean Group, Marina, CA**
- Coordinated, developed and taught educational programs for K-6 students, hired and trained new educators;
 - Managed budgets, wrote grants, reports and updates to the board of directors.
- 2002 **MBNMS Kayaker Outreach Program, Monterey, CA**
- TeamOCEAN Coordinator: provided information on natural history and proper wildlife-watching etiquette to fellow kayakers;

- Managed and trained a core of TeamOCEAN staff and volunteers, developed schedules, wrote reports and evaluations.

2001 **ABA Consultants, Capitola, CA**

- Conducted standardized searches for marine mammals aboard a fiber-optic cable-laying vessel along the coast of California and Oregon;
- Daytime and nighttime surveys;
- Notification to vessel personnel when marine mammals entered 150 m safety zone with authority to cease operation if marine mammals were endangered by vessel presence.

2000-2003 **Monterey Bay Aquarium, Monterey, CA & UC Santa Cruz, CA**

- Radio telemetry tracking of threatened southern sea otters (*Enhydra lutris nereis*) to determine survivorship, reproductive success, and foraging ecology;
- Assisted with bi-annual censuses, captures, tagging, examination and surgeries of sea otters.

2000-2001 **Pacific Cetacean Group, Marina, CA**

- Collected behavioral observations, event data recording of endangered north Pacific humpback whales (*Megaptera novaeangliae*) and southern sea otters (*Enhydra lutris nereis*);
- Photo-id of humpback whales, basic oceanographic data collection, collection of whale scat for domoic acid study at UCSC.

2000-2002 **Pacific Cetacean Group, Marina, CA**

- Director: coordinated and implemented public events, assisted in the administrative work of the group, recruited and trained new volunteers.

1998-Present **The Monterey Bay National Marine Sanctuary, Moss Landing, CA**

- Identification and data collection of beachcast marine mammals and seabirds during monthly beach surveys in Monterey Bay with the BeachCOMBERS Program.

1998-1999 **The Marine Mammal Center; Moss Landing, CA**

- Rescued and treated ill, injured, or orphaned marine mammals;
- Assessed animals by species, size, age class, body condition, dehydration status, wounds, behavior, vocalization, and human interaction;
- Provided husbandry to the animals.

1998-1999 **University of California, Santa Cruz, CA.**

- Distribution and abundance of endangered north Pacific humpback whales (*Megaptera novaeangliae*) in the Monterey Bay during 1998;
 - A mark-recapture study via photo-id of humpback whales.

SPECIALIZED SKILLS

- Census, and monitoring nest searching of passerines, raptors and seabirds
- Capture, banding, handling of raptors and owls
- Capture and handling of hummingbirds

- Avian blood, feather, and cloacal sample collection
- Attachment of VHF transmitters and wing-tags to raptors
- Dho-Gaza capture method using eagle owl as live lure for capture of breeding raptors
- Introduction to backpack transmitter attachment of honey buzzards
- Introduction to mist nesting and banding at standard effort sites of passerines
- Spring and fall shorebird surveys at Elkhorn Slough
- Radio telemetry tracking
- Aerial surveys of marine mammals and sea turtles
- Marine mammal census at sea and from shore with the use of 7 x 50 fuji non binoculars with and big-eye 25 x 150 oceanic binoculars
- Capture, weighing, measuring, and tagging elephant seal pups
- Seining for salmonids and tidewater gobies (*Eucyclogobius newberryi*)
- Transect surveys on estuarine mudflats for invertebrates
- Necropsy and tissue collection of birds and mammals
- Photo-ID photography of cetaceans, matching and identification of photo-ID photographs to existing catalog
- Dipstick, specific gravity, PCV, blood smears, CBC, and fecal analysis

CERTIFICATES, LICENSES & WORKSHOPS

- Scientific Collecting Permit: Issued by California Department of Fish and Game for mammals, reptiles, amphibians, vernal pool, freshwater and anadromous fishes, and freshwater invertebrates.
- U.S. Coast Guard Auxiliary Class and small boat operations 2000
- Trimble Certified: GPS Mapping with TerraSync, California State University Monterey Bay 2003
- Adult, Child, Infant CPR & First Aid, American Red Cross 2008
- Snowy Plover Breeding Season Monitoring Training. U.S. Fish & Wildlife Service March, 2010.
- Desert Tortoise Surveying, Monitoring, and Handling Techniques Workshop November, 2009: Desert Tortoise Council, CA
- California Tiger Salamander Workshop April, 2009: Coastal Training Program at the Elkhorn Slough National Estuarine Research Reserve, CA
- Santa Cruz Long-Toed Salamander Workshop April, 2009: Coastal Training Program at the Elkhorn Slough National Estuarine Research Reserve, CA
- California Red-legged Frog Workshop April 2008: Coastal Training Program at the Elkhorn Slough National Estuarine Research Reserve, CA
- Western Pond Turtle Workshop August, 2008: Coastal Training Program at the Elkhorn Slough National Estuarine Research Reserve, CA
- Monarch Butterfly Monitoring Workshop November 2008: Monarch Grove Sanctuary, Pacific Grove, CA