

Diana L. Dishman

Education

- 2008 - 2011 Portland State University, Portland, OR; M.S. Biology (GPA: 4.0)
2002 - 2006 Scripps College, Claremont, CA; B.A. Organismal Biology (GPA: 3.8)

Work Experience

- June 2012 - present Associate Scientist for an Environmental Consulting Firm
Performed data quality assurance and data management activities for a large environmental dataset collected pursuant to a NRDA, planned data collection to update a habitat equivalency analysis model, and received professional training in environmental risk assessment.
- June 2012 - present Research Associate, Conservation Genetics Laboratory, Portland State University
Extracted, isolated and amplified mitochondrial DNA (mtDNA) and microsatellite loci, and analyzed markers for population structure and primer suitability for local pinniped species and bottlenose dolphins.
- Mar 2012 - Mar 2014 Board of Directors, PDXWildlife
Worked with a group of scientists to establish a 501(c)3 nonprofit organization which promotes the conservation of wildlife species and their critical habitats through scientific research. Initiated a sustainable seafood research initiative, contributed to grant proposals and strategic planning, and helped develop an international internship program.
- Aug 2011 - Dec 2011 Program Intern, Community Centred Conservation (C3)
Developed and implemented key informant surveys to assess dugong status, habitat condition and community conservation awareness in coastal communities, and gave resource management and capacity building lectures to local university students.
- Aug 2006 - Feb 2008 Laboratory Technician II, Parametrix Environmental Research Laboratory
Designed experiments, created appropriate criteria and operating procedures, conducted acute, chronic, and early life stage aquatic toxicity tests for a variety of fish and invertebrate species.

Research Experience

- Fall 2013 Bottlenose Dolphin Population Structure, Portland State University
Isolated and amplified mtDNA, and analyzed sequence data to evaluate population structure for bottlenose dolphin tissue samples collected in the Gulf of Mexico.
- June 2013 - Present PDXSeafood Sustainable Seafood Research Program, PDXWildlife
Initiated a research initiative in conjunction with the Monterey Bay Aquarium research scientists to evaluate the effects of a menu-marking outreach program on sustainable seafood consumption in local restaurants. Designed study methods, educated restaurant staff, and collected and analyzed restaurant sales data to evaluate changes in seafood consumption.
- Aug 2011 - Dec 2011 Dugong Surveys, Community Centred Conservation Philippines Program
Conducted key informant interviews and preliminary seagrass reconnaissance to assess the status of dugongs (*Dugong dugon*) and potential habitat in Busuanga Municipality, Palawan, Philippines.
- Sep 2008 - Jun 2011 Master of Science Thesis Research, Portland State University
Analyzed genetic substructure of Pacific harbor seal (*Phoca vitulina richardsi*) populations along the coasts of Washington and Oregon using mtDNA and microsatellite markers of tissues collected from stranded animals.

Jan 2007- Feb 2008 Copper Avoidance Studies, Parametrix Environmental Research Laboratory
Evaluated salmonid behavioral avoidance of copper at sub-lethal concentrations in a flow-thru Y-maze, demonstrating behavioral effects as a sub-lethal endpoint to assess exposure.

Grants and Fellowships

June 2009 Grant-in-Aid of Research: Oregon Zoo Future for Wildlife Fund (\$1000)
April 2009 Grant-in-Aid of Research: Lerner Gray Fund for Marine Research (\$1500)

Honors and Awards

Mar 2011 Best Student Paper: 2011 Joint Annual Meeting of The Society for Northwestern Vertebrate Biology and the Wildlife Society Washington Chapter
Feb 2011 Best Student Paper: The Wildlife Society Oregon Chapter 2011 Annual Meeting

Presentations

Arnold, WR, EJ Van Genderen, DL Dishman and JW Gorsuch. Sub-lethal Effects of Copper on Salmonids: An Avoidance Evaluation Using a Direct Test Method. *2012 SETAC North America 33rd Annual Meeting, Long Beach, CA.*

Dishman, DL, DA Duffield, HR Huber, DM Lambourn, and JM Rice. Sex-biased gene flow appears to maintain genetic exchange among Pacific harbor seal (*Phoca vitulina richardsi*) populations along the coasts of Washington and Oregon. *The American Society of Mammalogists and Australian Mammal Society 2011 Joint Annual Meeting, Portland, OR; The 2011 2nd International Marine Conservation Congress, Victoria, BC; The Society for Northwestern Vertebrate Biology and the Wildlife Society Washington Chapter 2011 Joint Annual Meeting, Gig Harbor, WA; The Wildlife Society Oregon Chapter 2011 Annual Meeting, Bend, OR.*

Volunteer Positions

Sept 2008 - present Volunteer, Northern Oregon/Southern Washington Marine Mammal Stranding Network
Responded to reports of beach-cast animals, participated in over 30 necropsies in the field and in the laboratory, recorded detailed measurements and notes of animal condition, sampled tissues for histopathology and other analyses, catalogued and stored collected tissues with appropriate records.

Mar 2010 - Jun 2010 Observer, Willamette Falls Pinniped Fisheries Interaction Project
Completed training for local fish species identification and collected over 20 hours of observation data including pinniped identification and activity, human interaction, and fish catches at Willamette Falls field site.

Teaching Experience

Mar 2011 - present Adjunct Faculty, Portland Community College - Human Anatomy and Physiology
Taught 100-level lecture and 200-level laboratory courses. Generated course materials, gave lectures, led discussions and activities, evaluated written work and presentations, prepared and administered exams, assigned final grades.

Mar 2010 - present Adjunct Faculty, Clark College - Human Anatomy and Physiology Laboratory
Taught 200-level laboratory course. Gave lectures, led discussions, dissections and activities, and taught students one-on-one in open review sessions. Prepared, administered and graded written quizzes and exams.

Sep 2008 - Dec 2010 Laboratory Instructor, Portland State University - Human Anatomy and Physiology
Taught laboratory sessions for all terms of a year-long 300-level laboratory course. Gave lectures, led discussions and activities, prepared cadaver and animal specimen dissections for instruction. Prepared, administered and graded written quizzes and exams.

Relevant Coursework

Graduate: Population Biology, Environmental Data Analysis, Recombinant DNA, Phylogenetics, Neurophysiology, GIS I, Marine Mammalogy, Grant Writing, Scientific Ethics

Undergraduate: Biostatistics, Vertebrate Biology, Vertebrate Physiology, Ecology and Conservation, Tropical Ecology, Cell Biology

Special Sessions:

The Northwest Environmental Training Center: Introduction to Ecological Risk Assessments and Advanced Ecological Risk Assessments

International Marine Conservation Congress 2011 Meeting Workshop: Exploring Marine Conservation and Marine Spatial Planning with Interactive, Collaborative GIS

Society for Northwestern Vertebrate Biology 2011 Annual Meeting Workshop: Wildlife Telemetry

The Wildlife Society Oregon Chapter 2011 Annual Meeting Workshop: Animal movement and gene flow

2010 Summer Institute of Statistical Genetics: Computing for Statistical Genetics, Population Genetic Data Analysis, MCMC for Genetics, and Inference of Relationships and Relatedness

Skills and Qualifications

General Programs: Microsoft Office Suite 2010, EndNote, Open Office Suite 3.1, ArcGIS 10, Research databases (e.g. NCBI, PubMed, Web of Science, etc.)

Statistical Packages: R Statistical Computing Platform and Tinn-R, SPSS, Lasergene suite, Arlequin, ClustalX, STRUCTURE, Geneland.