

## **Donna D.W. Hauser**

School of Aquatic and Fishery Sciences  
University of Washington  
Box 355020, Seattle, WA 98195

Phone: 206-331-1684 (C)  
Email: [dhauser@u.washington.edu](mailto:dhauser@u.washington.edu)  
Web: <http://students.washington.edu/dhauser>

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### **EDUCATION**

#### **M.S., Aquatic & Fishery Sciences, 9/03-9/06**

University of Washington, Seattle, WA

Title: Summer space use patterns of Southern Resident killer whales (*Orcinus orca*) within Washington and British Columbia inshore waters

Committee: G. R. VanBlaricom (chair), E. E. Holmes, M. G. Logsdon, R. W. Baird

#### **B.S., Aquatic & Fishery Sciences, December 2002 (Magna Cum Laude)**

University of Washington, Seattle, WA

#### **B.S., Ecology, Evolution, & Conservation Biology, December 2002 (Cum Laude)**

University of Washington, Seattle, WA

### **SUMMARIZED SKILLS**

**Writing and Communication Skills:** Literature review, research project proposals, technical reports, oral presentation, manuscripts for scientific publication and public outreach.

**Computer Experience:** Advanced knowledge of ArcGIS 8.0-9.1 for map development and spatial analysis, FragStats 3.0, MS Word, Excel, PowerPoint, Outlook Express and Access; Familiarity with programming in Visual Basic for MS Excel, Arc Model Language and Stella, statistical packages including SPSS and PRIMER, graphic design in Adobe Photoshop and Illustrator, website design in Macromedia Suite, media production in Windows Movie Maker and QuickTime.

**Field Work:** Marine & freshwater aquatic fish and wildlife monitoring and management techniques: observation, theodolite tracking, population survey, invertebrate intertidal surveys, salmonid sampling, and habitat restoration. Small boat commandeering, budget management, personnel hires, training, supervision and logistics management. Cetacean photo-ID and pinniped scat collection and identification.

### **TEACHING & MENTORING EXPERIENCE**

Instructor, Beam Reach Marine Science & Sustainability School, Fall 2006

Teaching Assistant, University of Washington, Fisheries 475: "Marine Mammalogy" (Dr. Glenn VanBlaricom as instructor), Spring 2006

Graduate student supervisor for undergraduate School of Aquatic & Fishery Sciences Capstone Project

Diet studies of harbor seals in Iliamna Lake, AK, Winter & Spring 2006

Tidal influences on harbor porpoise in Greater Puget Sound, Winter & Spring 2005

Teaching Assistant, University of Washington, Fisheries/Environment 101: "Aquatic Conservation & Management" (Dr. Robert Francis as instructor), Spring 2005

Co-supervisor for undergraduate intern (studying Southern Resident killer whales) in the VanBlaricom Laboratory Group, Fall 2004

Lead training for volunteers on Southern Resident killer whale field surveys, Spring & Summer 2004

### **LEADERSHIP & VOLUNTEER ACTIVITIES**

UW School of Aquatic & Fishery Sciences Graduate Student Symposium Coordinator, Winter 2006

Southern Resident killer whale discussion group Coordinator, Spring 2004-Present  
Graduate student member and contributor to UW School of Aquatic & Fishery Sciences Curriculum Committee, 2004-present  
UW School of Aquatic & Fishery Sciences Graduate Student Symposium Coordinator, Fall 2004

## **RESEARCH EXPERIENCE**

**Instructor: Beam Reach Marine Science & Sustainability School, San Juan Islands, WA (8/06-10/06)**

- Co-instructor for intensive, field-based undergraduate and post-baccalaureate marine science class, with a focus on Southern Resident killer whales and acoustic research
- Lecture and activity instruction on: marine mammal natural history, spatial analysis using ArcGIS, standard parametric statistics, field techniques, collecting cetacean behavioral data, presenting written and oral scientific studies, sustainability science, journal club discussion, sailing and seamanship
- Mentor 6 students throughout the scientific process, from initial questions through proposal, data analysis, and oral and written presentation and interpretation of results; All student research focused on Southern Resident killer whales and/or acoustics
- Land-based instruction at Friday Harbor Laboratories (5 weeks total); Sea-based instruction aboard 42-foot sailing catamaran (5 weeks total)
- Lead and organize group tasks and cooperation
- Coordinate group logistical planning and needs

**Research Assistant: University of Washington, School of Aquatic & Fishery Sciences, Seattle, WA (7/03-present)**

Design, organize, and accomplish M.S. thesis analyzing spatial & temporal distribution patterns of Southern Resident killer whales (*Orcinus orca*), including:

- Behavioral scan sampling and field surveys of Southern Resident killer whales (SRKW) in the San Juan Islands, WA
- Lead and coordinate undergraduate research assistants and volunteers in field surveys for killer whale presence and identification
- Budget management
- Create and manage long-term MS Access sighting database
- Analyses and modeling in ArcGIS applications
- Additional field experiences studying black abalone in the Channel Islands, CA; Puget Sound, WA bottomfish trophic interactions; juvenile and adult sockeye salmon on the Alaska Peninsula and Bristol Bay

**Volunteer: Soundwatch Boater Education Program, The Whale Museum, Friday Harbor, WA (7/03-9/03)**

Assist in on-the-water distribution of whalewatching guidelines, including:

- Promotion of marine stewardship in the San Juan Islands
- Disbursed informational material to recreational boaters
- Collected data on whale identifications and location, recreational and commercial boat counts, commercial and recreational boater infractions to guidelines

**Research Technician: Northwest Fisheries Science Center, National Marine Fisheries Service, with E. Holmes, Seattle, WA (6/03-9/03)**

Conduct independent field research on Southern Resident killer whale pods in preparation for M.S. thesis, including:

- Collection & analysis of behavioral and location field data for each pod
- Formal report and presentation of results

**Research Apprenticeship: Field Methods in Marine Mammalogy, Friday Harbor Laboratories, with D. E. Bain & R. Osborne, Friday Harbor, WA (3/03-6/03)**

Internship in field applications of marine mammal science with a particular focus on killer whales, including:

- Identification of killer whale individuals and pods
- Collection of acoustic recordings and boat-based behavioral data
- Processed Photo-Identification photographs
- Theodolite track whales and whale-watching vessels
- Sight and record data on marine mammal abundance using standardized line transect surveys
- Independent research of Southern Resident killer whale seasonal distribution and habitat use

**Laboratory Aide: University of Washington, Alaska Salmon Program, Quinn Lab, Seattle, WA (1/03-3/03)**

Assist in studies related to salmonids ecology, including:

- Setup, maintenance, and monitoring of juvenile coho salmon (*Oncorhynchus kisutch*) olfaction behavioral experiment
- Data entry/management of historical fisheries data in Access and Excel databases

**Student Intern: International Pacific Halibut Commission (IPHC), Seattle, WA (6/02-9/02)**

Internship in international fisheries research and management, including:

- Conduct pilot studies into the use of passive integrated transponders (PIT) tags on Pacific halibut: identified the feasibility of portside scanning studies and compared possible PIT tag readers
- Analyze and determine PIT tag readers' detection & scanning rates, ease of use, and evaluate cooperation from processing plants
- Participate in IPHC research activities: sea-sampling (aboard 27 m long-line vessel), port-sampling, aging, sampling for chemical elemental otolith research, data entry, sampling for diet analysis

**Group Research: Friday Harbor Laboratories, Friday Harbor, WA (3/02-6/02)**

Instruction and internship in intertidal organismal biology and ecology, including:

- Conduct field data collection and group analyses to determine chiton (*Kathrina tunicata*) distribution, abundance, size, and habitat choice on north and south-facing rocky intertidal slopes at multiple sites on San Juan Island, WA

**Senior Thesis: University of Washington, Alaska Salmon Program, University of Washington (6/01-4/02)**

Independent research of a unique freshwater population of harbor seals (*Phoca vitulina*) in Iliamna Lake, Alaska, including:

- Set up, collect, and analyze observations on harbor seal haul out patterns using pre-programmed video recordings
- Complete written thesis: "Harbor seal (*Phoca vitulina*) haul-out patterns in Iliamna Lake, Alaska"
- Collect and process harbor seal fecal samples through sieve series for diet analysis
- Identify hard parts (otoliths, vertebrae, and teeth) in fecal samples using microscopes to determine prey frequency of occurrence

**Field Salmon Ecology: University of Washington, Alaska Salmon Program, with T. P. Quinn, D. E. Schindler, & R. Hilborn, Bristol Bay, AK (6/01-12/01)**

Instruction and research on salmon management techniques, spawning behavior, and fertilization effects on lakes, including

- Operation of small, open watercrafts (6 m) with outboard motors
- Perform various fisheries techniques: disc-tag salmonids, beach seining, stream survey, limnological data collection, extract otoliths and genetic samples

**Crew Member: Sailboat *Resolute* (3/00-7/00)**

- Travel on 16 m sailboat from Southern Chile to Honolulu, Hawaii with 3 other crew members
- Stand day/night watch, prepare meals, and participate in sailing activities

## **PUBLICATIONS**

- Hauser, D.D.W. 2006. Summer space use of Southern Resident killer whales (*Orcinus orca*) within Washington and British Columbia inshore waters. MS Thesis, University of Washington.
- Hauser, D. D.W., G.R. VanBlaricom, E. E. Holmes, R. W. Osborne. IN PRESS. Evaluating the use of whalewatch data in determining killer whale (*Orcinus orca*) distribution patterns. Journal of Cetacean Research & Management.
- Hauser, D. D. 2003. Portside scanning studies of the use of passive integrated transponder (PIT) tags on Pacific halibut (*Hippoglossus stenolepis*): Feasibility and comparisons of PIT tag readers. International Pacific Halibut Commission Report of Assessment and Research Activities 2002: 321-340.
- Hauser, D.D.W., M.G. Logsdon, E.E. Holmes, G.R. VanBlaricom, R.W. Osborne. In Prep. Considering temporal variability in critical habitat planning for endangered cetaceans.
- Hauser, D.D.W., M.G. Logsdon, E.E. Holmes, G.R. VanBlaricom, R.W. Osborne. In Prep. Variability in summer distribution patterns among social groups of Southern Resident killer whale (*Orcinus orca*).
- Hauser, D. D.W., C. Allen, T. P. Quinn. In Prep. Food items of freshwater harbor seals (*Phoca vitulina*) in Iliamna Lake, AK.

## **FORMAL PRESENTATIONS**

- Ecological Society of America Annual Conference 2006 (oral)
- Society for Conservation GIS Annual Meeting, held concurrently with the Society for Conservation Biology Annual Meeting 2006 (poster)
- American Cetacean Society, Puget Sound Chapter Speaker Series 2006 (oral, invited)
- Southern Resident killer whale research workshop 2006 (oral, invited)
- Pacific Ecology and Evolution Conference 2006 (oral)
- 16<sup>th</sup> Biennial Conference on the Biology of Marine Mammals 2005 (oral)
- Washington Cooperative Fisheries and Wildlife Research Unit Annual Meeting 2005 (poster)  
Best Poster Award
- Puget Sound Georgia Basin Research Conference 2005 (poster)
- Southern Resident killer whale research planning workshop 2004 (oral, invited)
- Washington Cooperative Fisheries and Wildlife Research Unit Annual Meeting 2004 (oral)
- Society for Marine Mammalogy Northwest Student Chapter Annual Meeting 2004 (oral)
- University of Washington School of Aquatic and Fishery Sciences Graduate Student Symposium 2003 (oral)

## **AWARDS & AFFILIATIONS**

- UW School of Aquatic & Fishery Sciences Master's Student Faculty Merit Award 2005-2006
- Gil Pauley Student Research Award  
Best Poster at Washington Cooperative Fish & Wildlife Research Unit Annual Meeting 2005
- Society for Marine Mammalogy Student Travel Award 2005
- American Cetacean Society Puget Sound Chapter Student Research Award 2005
- UW School of Aquatic & Fishery Sciences Graduate Research Support 2004  
Claire L. and Evelyn S. Egtvedt Fellowship
- UW School of Aquatic & Fishery Sciences Undergraduate Faculty Merit Award 2001-2002
- UW School of Aquatic & Fishery Sciences Undergraduate Scholarships  
Floyd E. Ellis Memorial Scholarship 2002-2003  
Van Cleve Scholarship 2001-2002
- UW Friday Harbor Laboratories Research Scholarships  
Apprentice Research Award 2003

Undergraduate Research Award 2002  
Ecological Society of America, 2005 - present  
Society for Conservation Biology, 2005 - present  
Phi Beta Kappa 2003 - present  
Society for Marine Mammalogy, 2002 - present  
American Cetacean Society, 2004 - 2005  
American Fisheries Society, 2003 - 2005  
University of Washington College of Ocean & Fishery Sciences Dean's List, 2000 – 2002  
University of Washington School of Arts & Sciences Dean's List, 1998 - 2002

### **TRAININGS AND CERTIFICATIONS**

-First Aid & CPR, Winter 2006  
-UW College of Ocean & Fishery Sciences Teaching Assistant training, Fall 2004  
-UW Center for Instructional Design & Research Teaching Assistant conference, Fall 2003  
-Laboratory Safety, Fall 2003  
-Cold water At-sea survival training, Summer 2002  
PADI SCUBA certification, Summer 1999

### **RELEVANT COURSEWORK**

Analysis of Spatial Processes, Quantitative Fisheries Management, Salmon Life History and Ecology, Conservation Biology, Environmental Anthropology, Fisheries Conservation and Management, Geographical Information Systems and Remote Sensing, Marine Mammalogy, Aquatic Ecological Research in Alaska (Bristol Bay, AK with emphasis on limnology, fisheries management, sockeye salmon behavioral ecology, and ecological effects of salmonid spawning events), Watershed Ecology and Management, Biology of Fishes, Biostatistics, Ecological Principles, Conservation Genetics (emphasis on Pacific Northwest issues), Introductory Oceanography, Evolutionary Mechanisms, Limnology, Friday Harbor Laboratories: Marine Zoology/Marine Botany, Field Methods in Marine Mammalogy

### **INTERESTS**

Hiking, sea kayaking, fly-fishing, reading, backpacking, travel, cooking, photography