

Hans Nesse

Quantitative Ecology and Resource Management.
University of Washington
Box 352182
Seattle, WA 98195-2182

nesse@u.washington.edu
Phone: 206.940.9142

Interests

The interface between archaeology and ecology; zooarchaeology; paleoecology; quantitative modeling; statistical methods; and public understanding of math and science

Education

M.S., Quantitative Ecology and Resource Management (QERM), Expected 2008
University of Washington, Seattle, WA

B.S. in Mathematics, 2003
University of Washington, Seattle, WA

B.A. in Anthropology, 2003
University of Washington, Seattle, WA

A.A.S., 1999
Shoreline Community College, Shoreline, WA

Teaching Experience

Teaching assistant University of Washington
Seattle, WA April 2008 to June 2008
Delivered lectures and wrote class notes for QERM 514, Analysis and modeling of ecological data. Topics covered included linear models, generalized linear models, maximum likelihood methods, linear mixed effects, and nonlinear least squares models.

Teacher Educational Advancement Academy
Bellevue, WA December 2003 to September 2005
Taught a variety of middle and high school math, science, and health classes.

Grader University of Washington
Seattle, WA June 2003 to August 2003
Graded coursework for two senior-level geometry classes.

Tutor University of Washington
Seattle, WA September 2000 to June 2003
Tutored calculus and precalculus classes at a drop-in study center on campus.

Learning Assistant Shoreline Community College

Shoreline, WA
Tutored math classes ranging from elementary algebra to calculus at a drop-in tutoring center on campus.

September 1999 to September 2000

Other Academic Service

Appointment Review Committee Member
Shoreline, WA
Reviewed a faculty member to be granted a tenured appointment.

Shoreline Community College
1999 to 2000

Research Experience

University of Washington
Shark Research Lab
Research Assistant

Seattle, WA

July 2005 to September 2005

June 2006 to Present

Worked on several projects related to mathematical modeling of Steller sea lion populations. Work included writing and developing proposals for funding, numerical simulation in matlab, simulation and statistical analysis in R, as well as research in the marine mammal and mathematical ecology literature.

Awards and Honors

- H. Mason Keeler Endowment for Excellence Scholarship (2006-2007)
- Graduate Fellowship for first year study in Quantitative Ecology and Resource Management (2005-6).
- Quarterly Dean's List, University of Washington: Autumn 2000, Spring 2002, Spring 2003, and Summer 2003.

Talks

- Steller sea lion declines: Comparing fishing and the PDO. Noon Seminar, National Marine Mammal Lab, October 24, 2007.
- Modeling Steller sea lion populations in the North Pacific. QERM Spring Seminar, University of Washington, May 30, 2007.
- Population modeling of Steller sea lions on the Kuril Islands (with Eli Gurarie). Kuril Island Biocomplexity Project Seminar, University of Washington, April 12, 2007.

Professional Affiliations

- American Association for the Advancement of Science
- Society for American Archaeology
- Mathematical Association of America

Computer Skills

- Website development in HTML and Cascading Style Sheets
- L^AT_EX
- Numerical simulation in Matlab
- Statistical analysis and programming in R

- Programming in Python

Publications

- Gallucci, V.F., R.J. Foy, S. O'Brien, A. Silva, H. Nesse, B. Langseth, N. Vega, I. Taylor, K.J. Goldman. 2007. "Life History Implications from a Pregnant Salmon Shark, *Lamna ditropis* (Lamniformes: Lamnidae)." Submitted to *Journal of Fish Biology*.