

MICHAEL A. ETNIER, PO Box 92, Bellingham, WA 98227-0092  
metnier@u.washington.edu personal web page: www.pinniped.net/etnier

### **Current Positions**

Owner and Sole Proprietor, Applied Osteology, Bellingham, WA

Affiliate Professor, Department of Anthropology, University of Washington, Seattle, WA

### **Education**

- 2002 Ph.D. in Anthropology, University of Washington  
*The effects of human hunting on northern fur seal (Callorhinus ursinus) migration and breeding distributions in the late Holocene.*
- 1997 M.A. in Anthropology, University of Washington  
*Dietary Change at Lower Pescado Village (NM12-II09).*
- 1992 B.A. in Anthropology, minor in Zoology, University of Tennessee

### **Other certifications**

- SCUBA open water diver
- Wilderness First Aid
- Wilderness CPR

### **Field Experience**

- 2006- Senior researcher, Kuril Biocomplexity Project (NSF). University of Washington, Seattle, WA.
- 2001 Field Technician, National Marine Mammal Laboratory. Steller sea lion (*Eumetopias jubatus*) tagging expedition, northern Gulf of Alaska. T. R. Loughlin, P.I. (NMML, Seattle)
- 2000 Field Technician, National Marine Mammal Laboratory. California sea lion (*Zalophus californianus*) tagging expedition, San Miguel Island, CA. R. L. Delong and S. R. Melin, P.I.'s (NMML, Seattle)
- 1999 Instructor, University of Washington Archaeology Field School, Kodiak, Alaska. J. B. Fitzhugh, P.I. (U.W.)
- 1998 Archaeologist, National Park Service, Katmai National Park. J. M. Schaaf, P.I. (NPS, Anchorage)
- 1997 Volunteer, population assessment (pup shearing) of New Zealand fur seals (*Arctocephalus forsteri*), South Island, New Zealand. Corey Bradshaw, P.I. (University of Tasmania)
- 1996 Consultant, Hands Across Time Archaeological Project, Vashon Island, King County, WA. J. K. Stein, P.I. (U.W.)
- 1996 Excavator, Paquimé Regional Survey, Chihuahua, Mexico. M. E. Whallon (U. of Tulsa) and P. E. Minnis (U. of Oklahoma), P.I.'s
- 1993 Observer for National Marine Fisheries Service, Domestic Fleet, Alaska, Pacific Observers, Inc., Seattle
- 1987-1993 Gill netting ciscoes (*Coregonus* spp.) for genetic and morphological systematics analysis, Great Lakes and Hudson Bay drainages. D. A. Etnier, P.I., (University of Tennessee)
- 1991-1992 Collection and monitoring of fish and macroinvertebrate populations for environmental impact studies, Great Smoky Mountains National Park and U.S. Park Service, Gatlinburg, Tennessee.

- 1990-1992 Collection and monitoring of fish and macroinvertebrate populations for environmental impact studies, Cumberland Plateau, Tennessee and Kentucky
- 1992 Monitoring of vertebrate populations for assessment of a DOE superfund site, Roy F. Weston Company, Oak Ridge, Tennessee
- 1992 Excavator, Grotte XVI Archaeological Project, Dordogne, France. J.-P. Rigaud (Institut du Quaternaire, Bordeaux), J. Simek (U of Tenn), P.I.'s
- 1985-1992 Recovery program for federally listed endangered species Yellowfin madtoms (*Noturus flavipinnis*) and Smoky madtoms (*Noturus baileyi*), Lifespace Technologies, Knoxville, Tennessee
- 1991 Osceola Island Archaeological Survey (Phase I), Holston River, Bristol, Tennessee

### **Lab Experience**

- 1998-2001 Analysis of eastern North Pacific archaeofaunas, with focus on pinnipeds
- 2001 Contract Scientist, National Marine Mammal Laboratory, Seattle. Food habits study of Dall's porpoise (*Phocoenoides dalli*) in the North Pacific. Beth Sinclair, PI.
- 1995-1997 Consultant, EDAW, Inc., Seattle. Identification of skeletal material for Pelton Bald Eagle (*Haliaeetus leucocephalus*) Prey Remains Study.
- 1997 Identification of archaeofaunal remains, University of Otago, Dunedin, New Zealand, 1996 and 1997 Archaeological Field School. Marshall M. Weisler, P. I. (U. of Otago)
- 1997 Volunteer, Department of Marine Science, University of Otago, Dunedin, New Zealand. Elizabeth Slooten, PI. Photo ID project for Hector's dolphins (*Cephalorhynchus hectori*)
- 1996 Identification of archaeofaunal and human remains, Paquimé Regional Survey, Chihuahua, Mexico. M. E. Whallon (U. of Tulsa) and P. E. Minnis (U. of Oklahoma), P.I.'s
- 1995-1996 Analysis of Lower Pescado Village archaeofaunal assemblage, New Mexico. N. Rothschild, P.I. (Columbia University)
- 1993-1995 Director, Vertebrate Faunal Analysis Laboratory. Identification of Homestead Cave faunal assemblage, Bonneville Basin, Utah. D.K. Grayson, P.I. (UW)
- 1994 Assistant curator and biological technician, National Marine Mammal Laboratory. Identification, preparation, and cataloging of fish and squid specimens for the comparative identification collection.
- 1992 Sorting of benthic marine invertebrate samples, EVS Consultants, Seattle, Washington
- 1992 Identification of freshwater macroinvertebrate samples, Pennington and Associates, Cookeville, Tennessee

### **Teaching Experience**

- 2004, 1994 Naturalist/Counselor, U.S. Fish and Wildlife and Pribilof Island School District Stewardship Camp, St. Paul, Alaska
- 2002 Instructor, Archy 495: Quantitative Archaeological Analytic Techniques
- 2000 Instructor, Archy 205: Introduction to Archaeology
- 1999 Teaching Assistant, University of Washington Archaeology Field School, Kodiak, Alaska
- 1998 Teaching assistant, QSCI 482: Inferential Statistics, I
- 1996 Teaching assistant, Archy 481: Faunal Remains
- Teaching assistant, Archy 105: World Prehistory
- 1995 Teaching assistant, Archy 205: Introduction to Archaeology

### **Outreach and Service**

- 2006- Volunteer Science Instructor, Home Port Learning Center, Bellingham, WA.
- 2004-2006 Consultant, World Wildlife Fund's Coastal Communities in Science. Developing and implementing science curriculum in Alaskan Native communities.
- 1999-2001 Organizer, Anthropology Department Poster Presentation Series
- 1999-2000 Co-organizer, Anthropology Lecture Series.
- 1999 Grad Student Representative, Departmental Search Committee
- 1993- Artifact ID day, Burke Museum (bone identifications). Bi-annual open-house for museum members and other members of the public

## Publications and Reports

- Etnier, Michael A. 2007. Defining and identifying sustainable harvests of resources: Archaeological examples of pinniped harvests in the eastern North Pacific. *Journal for Nature Conservation* 15(3):196-207.
- Newsome, S. D., Etnier, M. A., Gifford-Gonzalez, D., Phillips, D. L., van Tuinen, M., Hadly, E.A., Costa, D. P., Kennet, D. J., Guilderson, T. P., and Koch, P. L. 2007. The shifting baseline of fur seal foraging ecology in the Northeast Pacific Ocean. *Proceedings of the National Academy of Sciences* 104(23):9709-9714.
- Newsome, S. D., Etnier, M. A., Kurle, C. M., Waldbauer, J. R., Chamberlain, C. P., and Koch, P. L. 2007. Historic decline in primary productivity in the North Pacific and Bering Sea? Isotopic analysis of northern fur seal (*Callorhinus ursinus*) teeth, Saint Paul Island, AK. *Marine Ecology Progress Series* 332:211-224.
- Fitzhugh, B., Etnier, M., MacInnes, B., Phillips, S.C. and Taylor, J.W. 2007. Report of archaeological field research in 2006, including geological descriptions of archaeological locales. Unpublished project report. Available on-line at: <http://depts.washington.edu/ikip/KBPpublic/ProjectPublications/index.shtml>
- Morin, Phillip A., Richard G. LeDuc, Kelly M. Robertson, Nicole M. Hedrick, William Perrin, Michael Etnier, Paul Wade, and Barbara L. Taylor. 2006. Genetic analysis of killer whale (*Orcinus orca*) historical samples to identify Western U.S. ecotypes. *Marine Mammal Science* 22(4):897-909.
- Newsome, S. D., M. A. Etnier, D. Auriolles-Gamboa, and P. L. Koch. 2006. Using carbon and nitrogen isotopes to investigate reproductive strategies in Northeast Pacific otariids. *Marine Mammal Science* 22(3): 556-572.
- Etnier, Michael A. and Jennifer Sepez. *in review*. Ecological, political, and cultural explanations for changing patterns in marine mammal exploitation among the Makah. In *Time and Change: Archaeological and Anthropological Perspectives on the Long Term in Hunter-Gatherer Societies*, edited by D. Papagianni and R. Layton. University of Utah Press.
- Newsome, S.D., Etnier, M.A., Crockford, S.J., McKechnie, I., Koch, P.L. *in review*. Prehistoric evidence for flexibility in northern fur seal (*Callorhinus ursinus*) maternal strategies in the northeast Pacific Ocean. *Oecologia*.
- Etnier, Michael A. and Charles W. Fowler. 2005. Comparison of size selectivity between marine mammals and commercial fisheries with recommendations for restructuring management policies. U.S. Dep. Commer., NOAA Technical Memorandum, NMFS-AFSC-159. 274 pp. Available on-line: <http://www.afsc.noaa.gov/Publications/techmemos.htm>
- Etnier, Elizabeth L. 2005. Day Hiker's guide to all the trails in the Smoky Mountains. Graphics by Michael A. Etnier. Singing River Publications, Ely, MN. [www.singingriverpublications.com](http://www.singingriverpublications.com).

- Etnier, Michael A. 2004. Re-evaluating evidence of density-dependent growth in northern fur seals (*Callorhinus ursinus*) based on measurements of archived skeletal specimens. *Canadian Journal of Fisheries and Aquatic Science* 61:1616-1626.
- Etnier, Michael A. 2004. The potential of zooarchaeological data to guide pinniped management decisions in the eastern North Pacific. In *Zooarchaeology and Conservation Biology*, edited by R. L. Lyman and K. P. Cannon, pp. 88-102. University of Utah Press, Salt Lake City.
- Etnier, Michael A. n.d. Evaluation of Staraya Artil paleontological and archaeological resources: progress report and recommendations for further study. Progress Report submitted in support of WWF Agreement #LC 06. World Wildlife Fund, Washington, D.C. October 2004.
- Etnier, Michael A. and Charles W. Fowler. 2003. The systemic management approach to size selectivity in commercial fisheries. Poster presented at the 15<sup>th</sup> Biennial Conference on the Biology of Marine Mammals, Greensboro, NC, 14-19 December, 2003. Available on-line: <http://nmml.afsc.noaa.gov/SystemicManagement/systemic.htm>.
- Etnier, Michael A. n.d. Interim Report for Contract AB133F-02-SE-1336 [Catalogue of killer whale osteological material in archaeological collections]. National Marine Mammal Laboratory, NOAA Fisheries, Seattle, 25 March 2003.
- Etnier, Michael A. 2002. Occurrences of Guadalupe fur seals (*Arctocephalus townsendi*) on the Washington Coast over the past 500 years. *Marine Mammal Science* 18(2):551-557.
- Larson, Shawn, Ronald Jameson, Michael Etnier, Melissa Fleming, and Paul Bentzen. 2002. Loss of genetic diversity in sea otters (*Enhydra lutris*) associated with the fur trade of the 18th and 19th centuries. *Molecular Ecology* 11(10):1899-1904.