BRIDGET E. FERRISS

ferriss@uw.edu / http://bridgetferriss.weebly.com

Research & Policy Interests: marine conservation, sustainable fisheries, food webs, shellfish toxins and marine contaminants, fisheries oceanography, ecosystem-based management, ecological modeling

EDUCATION

PhD	University of Washington, School of Aquatic and Fisheries Sciences (2006-2011) Dissertation: Trophic pathways and spatial variation of mercury in Pacific tunas Advisor: Dr. Timothy Essington
Masters of Marine Affairs	University of Washington, School of Marine Affairs (2000-2002) Thesis: Environmental indicators for estuaries: perceptions of practitioners in coastal estuaries of the Pacific Northwest, U.S.A. Advisor: Dr. Thomas Leschine
BSc	University of British Columbia, Oceanography Department (1993-1997) Major: Oceanography and Biology Honors thesis: The Variability of stomach temperature telemeters due to their physical characteristics (used to study the foraging ecology of Steller sea lions) Advisor: Dr. Russel Andrews

AWARDS

University of Washington Future Faculty Fellows Workshop: invited participant (2015)
Women Evolving the Biological Sciences Symposium: invited participant (2013)
ICES/PICES Early Career Scientist: invited participant (2012)
International Tuna Conference Scholarship (2008)
John A. Knauss Sea Grant Legislative Fellowship (2003)
Dean's Honour List, University of British Columbia (1996/1997)

RESEARCH GRANTS

National Institute of Health	Research supplement to promote re-entry into biomedical and behavioral research careers: Development of a model for realistic human seafood toxin consumption. (2014) $351,418.00
University of Washington Scholarship	Institute for Food and Science Technology (2007, 2010) 2 academic quarters of funding
US National Oceanic Atmospheric Administration	Hawaii Seafood Safety Program (2007) $194,978.81

RESEARCH & RELEVANT PROFESSIONAL EXPERIENCE

Research Associate	University of Washington, Radiology (2014-present) Human exposure to shellfish toxins
Research Scientist	WA Sea Grant (2014) Ecology of shellfish aquaculture in Puget Sound
Postdoctoral Fellow	NOAA Fisheries, Seattle (2011-2012) Influence of ocean conditions on early marine salmon growth

Teaching Assistant	University of Washington, School of Aquatic and Fisheries Sciences Fish 454: Ecological Modeling (2011) Fish 210: Research Methods in Aquatic and Fisheries Sciences (2008,2009)
Marine Policy Advisor	NOAA Fisheries, Silver Spring, MD & Honolulu, HI (2004-2006) Fisheries Ecosystem Observations Program
Sea Grant Knauss Fellow	Washington DC (2003-2004) U.S. Senate Subcommittee on Oceans, Fisheries & Coast Guard
Research Assistant	University of Washington, Seattle (2000-2002) Pacific Northwest Coastal Ecosystems Regional Study
	University of British Columbia, Fisheries Centre, Vancouver, BC (2000) Quantitative Fisheries Research: RapFish & Ecopath Models
	University of Texas A&M, Sakhalin Island, Russia (1998) Sakhalin Gray Whale Research Project
	OrcaLab, Johnstone Strait, BC (1997) Orca ecology and acoustics

PUBLICATIONS

Ferriss, B.E., Reum, J.C.P., McDonald, P.S.,Ferrell, D., Harvey, C.J. 2015. Evaluating trophic and non-trophic effects of shellfish aquaculture in the Central Puget Sound, WA food web. ICES Journal of Marine Science.

Reum, J.C.P., McDonald, P.S., **Ferriss, B.E.**, Farrell, D.M., Harvey, C.J., Levin, P.S. 2015. Qualitative network models in support of ecosystem approaches to bivalve aquaculture. ICES Journal of Marine Science

Reum, J.C.P., **Ferriss, B.E.**, McDonald, P.S., Farrell, D.M., Harvey, C.J., Klinger, T., Levin, P.S. 2015. Evaluating community impacts of ocean acidification using qualitative network models. Marine Ecology Progress Series 536: 11-24.

Ferriss, B.E. and Essington, T.E. 2014. Does trophic structure dictate mercury concentrations in top predators? A comparative analysis of mercury mass balance models for pelagic food webs in the Pacific Ocean. Ecological Modelling 278: 18-28.

Ferriss, B.E., Trudel, M., and Beckman, B.R. 2014. Assessing marine pelagic ecosystems: Regional and inter-annual trends in marine growth rates of juvenile salmon off the British Columbia coast. Marine Ecology Progress Series 503: 247-261.

Ferriss, B.E. and Essington, T.E. 2014. Can fish consumption rate estimates be improved by linking bioenergetics and mercury mass balance models? Application to tunas. Ecological Modelling 272: 232-241.

Ferriss, B.E. and Essington, T.E. 2011. Regional patterns in mercury and selenium concentrations of yellowfin (Thunnus albacares) and bigeye tuna (Thunnus obesus) in the Pacific Ocean. Canadian Journal of Fisheries and Aquatic Sciences 68(12): 2046-2056.

Ferriss, B.E. and Leschine, T. 2003. Assessing coastal practitioners' views on environmental indicators: case studies in U.S. Pacific northwest estuaries. Aquatic Ecosystem Health & Mgmt 6(2): 139-146.

Leschine, T., **Ferriss B.,** Bell, K.; Bartz K., MacWilliams S., Pico M., and Bennet A. 2003. Challenges and strategies for better use of scientific information in the management of coastal estuaries. Estuaries 26(4B): 1189-1204.

Alder, J., Lugten, G., Kay, R., and **Ferriss, B.** 2001. Compliance with international fisheries instruments in the North Atlantic. In: Fisheries Impacts on North Atlantic Ecosystems: Evaluations and Policy Exploration. UBC Fisheries Centre Research Reports 9(5): 55-80.

Alder, J, Pitcher, T.J., Preikshot, D., Kaschner, K., and **Ferriss, B.** 2000. How good is good?: A Rapid appraisal technique for evaluation of the sustainability status of fisheries of the north Atlantic. In: Methods for Evaluating the Impacts of Fisheries on North Atlantic Ecosystems. UBC Fisheries Centre Research Reports 8(2): 136-183.

ORAL PRESENTATIONS

Ferriss, B., Reum, J.C.P., McDonald, P.S., Ferrell, D., Harvey, C.J. Evaluating trophic and non-trophic effects of shellfish aquaculture in the Central Puget Sound, WA food web. American Fisheries Society in Portland, OR, 2015.

Ferriss, B. Food web interactions with shellfish aquaculture: a quantitative approach. WA Sea Grant stakeholder meeting in Olympia, WA 2014.

Ferriss, B., Trudel, M., and Beckman, B. Oceanographic influences on the variation of salmon growth along the coast of British Columbia. ICES/PICES Conference for Early Career Scientists in Spain. 2012.

Ferriss, B., Trudel, M., and Beckman, B. Spatial variation in salmon growth along the BC coast. Salmon Ocean Ecology Meeting in Newport, OR. 2012.

Ferriss, B., and Beckman, B., and Trudel, M. Spatial variation in coho salmon growth along the BC coast. Eastern Ocean Pacific Conference in Lake Tahoe, CA. 2011.

Ferriss, B., and Essington, T. The Statistical estimation of tuna consumption rates using coupled bioenergetics and mercury mass balance models. American Fisheries Society in Seattle, WA. 2011.

Ferriss, B., and Essington, T. Regional patterns in mercury concentrations of yellowfin and bigeye tuna in the Pacific Ocean. Ocean Sciences Meeting in Portland, OR. 2010.

Ferriss, B., and Essington, T. Regional variation in mercury concentrations of yellowfin and bigeye tuna in the Pacific Ocean. International Tuna Conference in Lake Arrowhead, CA. 2009

Ferriss, B., and Essington, T. Factors affecting the accumulation of mercury in four tuna species: diet vs. life history International Tuna Conference in Lake Arrowhead, CA. 2008.

PROFESSIONAL SERVICE & AFFILIATIONS

Manuscript Referee: Marine Ecology Progress Series, Deep Sea Research, Journal of Environmental Monitoring, Revista de Biologia Tropical, ICES Journal of Marine Science

Member: American Fisheries Society & American Institute of Fishery Research Biologists