

DALE MARSDEN

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EDUCATION

2003 - Present. *Doctor of Philosophy, Resource Management and Environmental Studies*. Fisheries Centre, University of British Columbia, Vancouver, BC, Canada.

- Supervisor: Dr. Ussif Rashid Sumaila
- Thesis title: Economics of Fraser River sockeye salmon fisheries management.

1997 - 1999. *Master of Science, Botany*. University of British Columbia, Vancouver, BC, Canada.

- Supervisor: Dr. Robert DeWreede
- Thesis Title: Effects of Acid Mine Drainage at Britannia Beach, B.C., on *Fucus gardneri* and associated intertidal algae.

1992 - 1997. *Bachelor of Science, Biological Sciences*. Simon Fraser University, Burnaby, BC, Canada.

SCHOLARSHIPS AND AWARDS

Major (more than \$5,000 per year)

- Doctoral Fellowship, Social Sciences and Humanities Research Council of Canada, 2005-2007.
- University Graduate Fellowship, University of British Columbia, 2004-2005.
- Applied Environmental Economics and Policy Research Scholarship, Environment Canada, 2004-2005.

Minor (less than \$5,000 per year)

- PhD Tuition Award, University of British Columbia, 2003-2007.
 - Lavkulich Excellence Award, Institute for Resources, Environment and Sustainability, 2006.
 - Green Graduate Scholarship, Green College, University of British Columbia, 2005-2006.
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WORK EXPERIENCE

2002 - present. *Research Assistant*
Sea Around Us project and Fisheries Economics Research Unit, Fisheries Centre, University of British Columbia, Vancouver, British Columbia, Canada.

- Managing and analyzing a worldwide database of dockside fish prices.
- Gathering, analyzing and interpreting data on the flow of fisheries products through the Canadian economy from 1950 to 2001.

1999 - 2002. *Senior Research Assistant*

Project Seahorse, McGill University, Montreal, Quebec, Canada, and University of British Columbia, Vancouver, British Columbia, Canada.

- Analyzed and interpreted biological data on seahorse populations.
- Significant research, editing and technical contributions to 19 publications, reports, protocols and proposals.
- Spent two months in the Central Philippines in early 2001 and two months in 2002, working with Filipino biologists and visiting Project Seahorse's field sites.

2000 - 2001. *Teaching Assistant – Aquatic Conservation*

McGill University, Montreal, Quebec, Canada.

- Supervised students conducting assessments of exploited aquatic species under World Conservation Union (IUCN) Red Listing criteria.

PUBLICATIONS

Peer-reviewed

- Sumaila, U.R., **Marsden, A.D.**, Watson, R. & Pauly, D. In Press. Global Ex-Vessel Fish Price Database: Construction, Spatial and Temporal Applications. *Journal of Bioeconomics*.
- Vincent, A.C.J., **Marsden, A.D.** & Sumaila, U.R. In press. The role of globalization in creating and addressing seahorse conservation problems. Globalization: effects on fisheries resources (Peer-reviewed proceedings of a symposium of the same name at the American Fisheries Society's 2003 annual meeting in Quebec City, Canada; Also available as Fisheries Centre Working Paper 2005-04.).
- **Marsden, A.D.** & Sumaila, U.R. In press. Canada's international marine fish trade since 1950: volume, value and implications for conservation. Proceedings of the Fourth World Fisheries Congress, Vancouver, 4 May 2004.
- **Marsden, A.D.** & Sumaila, U.R. 2005. Tracking flows of fisheries products: the case of Pacific halibut in the Canadian economy. *Fisheries Research* 73(1-2): 259-264.
- Vincent, A.C.J., Evans, K.L. & **Marsden, A.D.** 2005. Home range behaviour of the monogamous Australian seahorse, *Hippocampus whitei*. *Environmental Biology of Fishes* 72: 1-12.
- **Marsden, A.D.** & Evans, K.L. 2004. Synchrony, asynchrony and temporally random mating: a new method for analyzing breeding synchrony. *Behavioral Ecology* 15(4): 699-700.
- Levings, C.D., Barry, K.L., Grout, J.A., Piercey, G.E., **Marsden, A.D.**, Coombs, A. and Mossop, B. 2004. Effects of acid mine drainage on the estuarine food web, Britannia Beach, Howe Sound, British Columbia, Canada. *Hydrobiologia* 525(1-3): 185-202.
- Vincent, A.C.J., **Marsden, A.D.**, Evans, K.L. & Sadler, L.M. 2004. Temporal and spatial opportunities for polygamy in a monogamous seahorse, *Hippocampus whitei*. *Behaviour* 141(2): 141-156.

- Bell, E.M., Lockyear, J.F., McPherson, J.M., **Marsden, A.D.** & Vincent, A.C.J. 2003. First field studies of an endangered South African seahorse, *Hippocampus capensis*. *Environmental Biology of Fishes* 67(1): 35-46.
- **Marsden, A.D.**, DeWreede, R.E. & Levings, C.D. 2003. Survivorship and growth of *Fucus gardneri* after transplant to an acid mine drainage-polluted area. *Marine Pollution Bulletin* 46(1): 65-73.
- **Marsden, A.D.** & DeWreede, R.E. 2000. Marine macroalgal community structure, metal content and reproductive function near an acid mine drainage outflow. *Environmental Pollution* 110(3): 431-440.

Working Papers and Manuscripts

- McWhinnie, S.F., **Marsden, A.D.** & Sumaila, U.R. Manuscript. What determines fish prices on a large scale?
- **Marsden, A.D.**, Martell, S.J.D. & Sumaila, U.R. Manuscript. Retrospective economic analysis of Fraser River sockeye salmon fishery management.

Other Publications

- **Marsden, A.D.** 1999. Effects of acid mine drainage at Britannia Beach, B.C., on *Fucus gardneri* and associated intertidal algae. M.Sc. Thesis, University of British Columbia.

Presentations, Oral and Poster

- Sumaila, U.R., **Marsden, A.D.**, Watson, R. & Pauly, D. Global ex-vessel price database: construction and applications. Oral presentation at the International Institute of Fisheries Economics and Trade (IIFET) Conference, Portsmouth, UK, July 2006.
- **Marsden, A.D.**, Martell, S.J.D. & Sumaila, U.R. Retrospective economic analysis of Fraser River sockeye salmon management. Oral presentation at the IIFET Conference, Portsmouth, UK, July 2006.
- **Marsden, A.D.**, Martell, S.J.D. & Sumaila, U.R. Retrospective economic analysis of Fraser River sockeye salmon management. Poster presentation at the Stewardship and Conservation in Canada Conference, Corner Brook, Newfoundland, Canada, July 2006.
- **Marsden, A.D.** & Sumaila, U.R. Fisheries effects on Canadian marine ecosystems: implications of international trade. Oral presentation at the North American Association of Fisheries Economists (NAAFE) Forum, Vancouver, May 2005.
- Sumaila, U.R., **Marsden, A.D.** & McWhinnie, S.F. Global Ex-vessel Fish Price Database. Oral presentation at a Pre-Forum Workshop on "The True Costs of Overfishing: Solutions for Global Fish trade" at the NAAFE Forum, Vancouver, May 2005.
- **Marsden, A.D.** & Sumaila, U.R.. Fisheries effects on Canadian marine ecosystems: implications of international trade. Oral presentation at the International Institute of Fisheries Economics and Trade (IIFET) conference, Tokyo, Japan, July 2004.

- **Marsden, A.D.** & Sumaila, U.R. Canada's international fisheries trade since 1950: volume, value and implications for conservation. Poster presentation at the Fourth World Fisheries Congress, Vancouver, May 2004.
- Vincent, A.C.J., **Marsden, A.D.** & Sumaila, U.R. The role of globalization in creating and addressing seahorse conservation problems. Oral presentation at a symposium on "Colonialism, Nationalism and Globalization: The Philippines and Filipino Americans," University of Washington, Southeast Asia Center, February 2004.
- **Marsden, A.D.** Environmental economics research activities and directions - A west coast perspective. Oral presentation at Environmental and Coastal Economics workshop, Ocean Management Research Network National Conference, Ottawa, November 2003.
- **Marsden, A.D.** & Sumaila, U.R. Tracking flows of fisheries products through Canada: the Pacific halibut as a pilot study. Poster Presentation at the Ocean Management Research Network National Conference, Ottawa, November 2003.
- Presentations of my M.Sc. work: McGill University Department of Biology seminar series, October 1999; Northeast Algal Symposium. Plymouth, Massachusetts, USA, April 1999; Pacific Ecology Conference, Parksville, B.C., February 1999; Squamish River Watershed Society, May 1999; University of British Columbia Department of Botany Thesis seminar, November 1998.

Editorial Work

- Sumaila, U.R. & **Marsden, A.D.**, editors. Proceedings of the 2005 North American Association of Fisheries Economists Forum. Fisheries Centre Research Reports 14(1). 220 pp.

OTHER PROFESSIONAL ACTIVITIES

- Referee for academic journals: Archiv für Hydrobiologie; Marine Pollution Bulletin; Natural Resource Modelling; Phycologia.
- Registrar and web master for the 2006 Fisheries and Marine Ecosystems Graduate Student Conference (<http://www.fisheries.ubc.ca/fame>).

LANGUAGES

- English (first language).
- French - completed French Immersion in high school. In Government of Canada testing, obtained exemption from further testing (highest level) in reading, and B (intermediate level) in conversation and writing.

ACTIVITIES AND INTERESTS

- Secretary, Green College Dining Society, February 2006-present. (The GCDS oversees a meal plan for 90 graduate students and post-doctoral fellows, and a catering business. The Board of Directors manages annual expenditures of about \$450,000.)
- Board of Directors, Green College Dining Society, January 2005-present.
- Chair, Green College Sports Committee, September 2005-present.

- President, Resource Management and Environmental Studies Student Society (UBC), May 2004-April 2005.
 - Academic Coordinator, Resource Management and Environmental Studies Student Society (UBC), September 2003-April 2004.
 - First-degree Black Belt in Karate (Shorinjiryu Kentokukan Karatedo).
 - Swimming, Squash, Bicycling, Triathlon.
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REFERENCES Available on request.