

AARON JOHN WIRSING

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EDUCATION

- 2005 Ph.D. Biological Sciences, Simon Fraser University
- 2001 M.S. Wildlife Resources, University of Idaho
- 1996 A.B. Biology, Bowdoin College

PROFESSIONAL APPOINTMENTS

- 2008-Present Assistant Professor, School of Forest Resources, University of Washington
- 2006-2008 Post-doctoral Research Associate, Florida International University

REFEREED PUBLICATIONS

In press

Wirsing, A. J., K. E. Cameron, and M. R. Heithaus. Escape behavior as a source of contingency in predator risk effects. *Animal Behaviour*.

Dunphy-Daly, M. M., M. R. Heithaus, **A. J. Wirsing**, J. S. F. Mardon, and D. A. Burkholder. Predation risk influences the diving behavior of a marine mesopredator. *The Open Ecology Journal*.

2009

Wirsing, A. J., and M. R. Heithaus. 2009. Olive-headed sea snakes (*Disteria major*) shift seagrass microhabitats to avoid predators. *Marine Ecology Progress Series* 387: 287-293.

Heithaus, M. R., B. K. Delius, **A. J. Wirsing**, and M. M. Dunphy-Daly. 2009. Physical factors influencing the distribution of a top predator in a subtropical oligotrophic estuary. *Limnology and Oceanography* 54: 472-482.

Heithaus, M. R., **A. J. Wirsing**, D. Burkholder, J. Thomson, and L. M. Dill. 2009. Towards a predictive framework for predator risk effects: the interaction of landscape features and prey escape tactics. *Journal of Animal Ecology* 78: 556-562.

2008

Wirsing, A. J., R. Abernethy, and M. R. Heithaus. 2008. Speed and maneuverability of adult loggerhead sea turtles (*Caretta caretta*) under simulated predatory attack: do the sexes differ? *Journal of Herpetology* 42: 411-413.

Kerford, M. R., **A. J. Wirsing**, M. R. Heithaus, and L. M. Dill. 2008. Danger on the rise: tidal state mediates an exchange of food for safety by the bar-bellied sea snake *Hydrophis elegans*. *Marine Ecology Progress Series* 358: 289-294.

Heithaus, M. R., A. Frid, **A. J. Wirsing**, and B. Worm. 2008. Predicting ecological consequences of marine top predator declines. *Trends in Ecology and Evolution* 23: 202-210.

Heithaus, M. R., **A. J. Wirsing**, J. A. Thomson, and D. A. Burkholder. 2008. A review of lethal and non-lethal effects of predators on adult marine turtles. *Journal of Experimental Marine Biology and Ecology* 356: 43-51.

Wirsing, A. J., M. R. Heithaus, A. Frid, and L. M. Dill. 2008. Seascapes of fear: evaluating sublethal predator effects experienced and generated by marine mammals. *Marine Mammal Science* 24: 1-15.

2007

Heithaus, M. R., **A. J. Wirsing**, A. Frid, and L. M. Dill. 2007. Behavioral indicators in marine conservation: lessons from a pristine ecosystem. *Israel Journal of Ecology and Evolution* 53: 355-370.

Wirsing, A. J., M. R. Heithaus, and L. M. Dill. 2007. Can you dig it? Use of excavation, a risky foraging tactic, by dugongs is sensitive to predation danger. *Animal Behaviour* 74: 1085-1091.

Wirsing, A. J., M. R. Heithaus, and L. M. Dill. 2007. Fear factor: do dugongs (*Dugong dugon*) trade food for safety from tiger sharks (*Galeocerdo cuvier*)? *Oecologia* 153: 1031-1040.

Heithaus, M. R., A. Frid, **A. J. Wirsing**, L. M. Dill, J. W. Fourqurean, D. Burkholder, J. Thomson, and L. Bejder. 2007. State-dependent risk-taking by green sea turtles mediates top-down effects of tiger shark intimidation in a marine ecosystem. *Journal of Animal Ecology* 76: 837-844.

Wirsing, A. J., M. R. Heithaus, and L. M. Dill. 2007. Can measures of prey availability improve our ability to predict the abundance of large marine predators? *Oecologia* 153: 563-568.

Wirsing, A. J., and D. L. Murray. 2007. Food supplementation experiments revisited: verifying that supplemental food is used by its intended recipients. *Canadian Journal of Zoology* 85: 679-685.

Wirsing, A. J., M. R. Heithaus, and L. M. Dill. 2007. Living on the edge: dugongs prefer to forage in microhabitats allowing for escape from rather than avoidance of predators. *Animal Behaviour* 74: 93-101.

Wirsing, A. J., F. C. C. Azevedo, S. Larivière, and D. L. Murray. 2007. Patterns of gastrointestinal parasitism among five sympatric prairie carnivores: are males reservoirs? *Journal of Parasitology* 93: 504-510.

Heithaus, M. R., **A. J. Wirsing**, L. M. Dill, and L. I. Heithaus. 2007. Long-term movements of tiger sharks satellite-tagged in Shark Bay, Western Australia. *Marine Biology* 151: 1455-1461.

Ireland, D. H., **A. J. Wirsing**, and D. L. Murray. 2007. Phenotypically plastic responses of green frog embryos to conflicting predation risk. *Oecologia* 152: 162-168.

Sargeant, B. L., **A. J. Wirsing**, M. R. Heithaus, and J. Mann. 2007. Can environmental heterogeneity explain individual foraging variation in wild bottlenose dolphins (*Tursiops* sp.)? *Behavioral Ecology and Sociobiology* 61: 679-688.

2006

Monello, R. J., J. J. Dennehy, D. L. Murray, and **A. J. Wirsing.** 2006. Growth and behavioral responses of two native frogs to an exotic competitor, *Rana catesbeiana*. *Journal of Herpetology* 40: 403-407.

Heithaus, M. R., I. M., Hamilton, **A. J. Wirsing**, and L. M. Dill. 2006. Validation of a randomization procedure to assess animal habitat preferences: microhabitat use of tiger sharks in a seagrass ecosystem. *Journal of Animal Ecology* 75: 666-676.

Azevedo, F. C. C., V. Lester, W. Gorsuch, S. Larivière, **A. J. Wirsing**, and D. L. Murray. 2006. Spring dietary breadth and overlap among five sympatric prairie carnivores. *Journal of Zoology* 269: 127-135.

Wirsing, A. J., M. R. Heithaus, and L. M. Dill. 2006. Tiger shark (*Galeocerdo cuvier*) abundance and growth in a subtropical embayment: evidence from seven years of standardized fishing effort. *Marine Biology* 149: 961-968.

2005

Wirsing, A. J., J. D. Roth, and D. L. Murray. 2005. Can prey use dietary cues to distinguish predators? A test involving three terrestrial amphibians. *Herpetologica* 61: 104-110.

Heithaus, M. R., A. Frid, **A. J. Wirsing**, L. Bejder, and L. M. Dill. 2005. Biology of sea turtles under risk from tiger sharks at a foraging ground. *Marine Ecology Progress Series* 288: 285-294.

2004

Murray, D. L., J. D. Roth, and **A. J. Wirsing**. 2004. Predation risk avoidance by terrestrial amphibians: The role of prey experience and vulnerability to native and exotic predators. *Ethology* 110: 635-647.

2003

Wirsing, A. J. 2003. Predation-mediated selection on prey morphology: a test using snowshoe hares. *Evolutionary Ecology Research* 5: 315-327.

2002

Wirsing, A. J., T. D. Steury, and D. L. Murray. 2002. Noninvasive estimation of body composition in small mammals: a comparison of conductive and morphometric techniques. *Physiological and Biochemical Zoology* 75: 489-497.

Wirsing, A. J., and D. L. Murray. 2002. Patterns of browse consumption by snowshoe hares in the northwestern United States. *Ecoscience* 9: 440-449.

Wirsing, A. J., T. D. Steury, and D. L. Murray. 2002. Relationship between body condition and vulnerability to predation in red squirrels and snowshoe hares. *Journal of Mammalogy* 83: 707-715.

Steury, T. D., **A. J. Wirsing**, and D. L. Murray. 2002. Using multiple treatment levels as a means of improving inference in wildlife research. *Journal of Wildlife Management* 66: 292-299.

Murray, D. L., J. D. Roth, E. Ellsworth, **A. J. Wirsing**, and T. D. Steury. 2002. Estimating low-density snowshoe hare populations using fecal pellet counts. *Canadian Journal of Zoology* 80: 771-781.

Wirsing, A. J., T. D. Steury, and D. L. Murray. 2002. A demographic analysis of a southern snowshoe hare population in a fragmented habitat: evaluating the refugium model. *Canadian Journal of Zoology* 80: 169-177.

BOOKS AND BOOK CHAPTERS

Heithaus, M. R., A. Frid, J. J. Vaudo, B. Worm, and **A. J. Wirsing**. 2009. The ecological importance of elasmobranchs. Pages (in press) *in* *Biology of sharks and their relatives* (J. C. Carrier, M. R. Heithaus, and J. Musick, eds.), CRC Press, Boca Raton, Florida.

OTHER PUBLICATIONS

Wirsing, A. J. 2005. Predation-sensitive foraging behaviour of dugongs (*Dugong dugon*). Ph.D. Dissertation, Simon Fraser University.

Wirsing, A. J. 2003. Tiger sharks: important players in Shark Bay's seagrass ecosystem. *Monkey Mia News* 8: Spring 2003.

Wirsing, A. J. 2001. Demographic and nutritional analyses of a southern snowshoe hare population. M.S. Thesis, University of Idaho.

CONFERENCE PRESENTATIONS

2009 **Wirsing, A. J.**, and W. J. Ripple. The scope of fear: large predators trigger similar indirect risk effects in marine and terrestrial systems. Special Session titled, "Surf and Turf: Establishing New Paradigms by Integrating Theory and Forging Partnerships between Marine and Terrestrial Ecology", 94th Annual Meeting of the Ecological Society of America.

2009 Heithaus, M., C. Layman, P. Matich, B. Delius, **A. Wirsing**, and M. Dunphy-Daly. Stable isotopic analysis reveals individual variation in feeding behavior of juvenile bull sharks. 25th Annual Meeting of the American Elasmobranch Society.

2009 Burkholder, D., M. Heithaus, J. Thomson, and **A. Wirsing**. Does tiger shark (*Galeocerdo cuvier*) predation risk influence habitat use of green sea turtles (*Chelonia mydas*) at multiple spatial scales? 25th Annual Meeting of the American Elasmobranch Society.

2009 **Wirsing, A. J.**, M. R. Heithaus, C. A. Layman, B. K. Delius, and M. M. Dunphy-Daly. No bull: juvenile bull sharks may play diverse functional

roles in coastal food webs. 19th Annual Review of Research, The Water Center, College of Forest Resources, University of Washington, Seattle

- 2006 **Wirsing, A. J.**, M. R. Heithaus, and L. M. Dill. Living on the edge: dugongs prefer foraging microhabitats allowing for escape when predators are abundant. 91st Annual Meeting of the Ecological Society of America.
- 2006 **Wirsing, A. J.**, M. R. Heithaus, and L. M. Dill. "Living on the edge: dugongs prefer foraging microhabitats allowing for escape when predators are abundant". 8th Annual Biology Research Symposium, Florida International University.
- 2005 **Wirsing, A. J.**, M. R. Heithaus, and L. M. Dill. Predation-sensitive foraging by dugongs in a subtropical Australian embayment. 42nd annual Animal Behavior Society Conference.
- 2005 Heithaus, M. R., A. J. Wirsing, L. M. Dill, and I. M. Hamilton. Microhabitat use of tiger sharks in Shark Bay, Western Australia: predator-prey interactions at multiple spatial scales. 21st Annual Meeting of the American Elasmobranch Society.
- 2005 **Wirsing, A. J.**, M. R. Heithaus, and L. M. Dill. Predation-sensitive foraging by dugongs in a subtropical Australian embayment. 26th annual Pacific Ecology and Evolution Conference.
- 2004 Murray, D. L., E. Ellsworth, S. Field, S. Johnson, T. Steury, and **A. J. Wirsing**. Do southern snowshoe hare populations cycle, or simply fluctuate irregularly? 2nd International Lagomorph Conference.
- 2003 **Wirsing, A. J.**, M. R. Heithaus, and L. M. Dill. Habitat use and foraging decisions of dugongs in response to varying tiger shark predation risk. 11th Annual BC Marine Mammal Symposium.
- 2001 **Wirsing, A. J.**, and D. L. Murray. Do food quantity and quality influence the dynamics of southern snowshoe hare populations? 81st Annual Meeting of the American Society of Mammalogists.
- 2000 **Wirsing, A. J.**, T. D. Steury, and D. L. Murray. Population dynamics of snowshoe hares and lynx conservation in Idaho. 14th Annual Meeting of the Society for Conservation Biology.
- 2000 **Wirsing, A. J.**, T. D. Steury, and D. L. Murray. Population dynamics of snowshoe hares in Idaho. Annual meeting of the Idaho Chapter of the Wildlife Society.
- 1999 Steury, T. D., and **A. J. Wirsing**. Population Regulation Theory:

Emancipation from the Quest for Density Dependence. 84th Annual Meeting of the Ecological Society of America.

- 1999 Murray, D. L., T. D. Steury, and **A. J. Wirsing**. Snowshoe Hare and Red Squirrel Ecology in the Bitterroot Mountains of Idaho. Western Forest Carnivore Meeting.

INVITED TALKS

- 2009 **Wirsing, A. J.**, and W. J. Ripple. The scope of fear: large predators trigger similar indirect risk effects in marine and terrestrial systems. Department of Biology Autumn Seminar Series, University of Washington, Seattle
- 2009 **Wirsing, A. J.**, and W. J. Ripple. The scope of fear: large predators trigger similar indirect risk effects in marine and terrestrial systems. Brown Bag Seminar Series, Washington Department of Fish and Wildlife, Olympia.
- 2009 **Wirsing, A. J.** Using tiger sharks to protect and restore seagrass meadows. Aquatic and Fishery Sciences Spring Departmental Seminar Series, University of Washington, Seattle.
- 2009 **Wirsing, A. J.** Carnivore conservation in the Pacific Northwest. "Sustaining Our Northwest World" Winter Lecture Series, College of Forest Resources, University of Washington, Seattle.
- 2009 Heithaus, M. R., C. A. Layman, B. K. Delius, **A. J. Wirsing**, and M. M. Dunphy-Daly. Among-individual niche variation of a marine top predator species, the bull shark (*Carcharhinus leucas*), suggests diverse functional roles within coastal food webs. Winter Water Center Seminars, College of Forest Resources, University of Washington, Seattle.
- 2009 Heithaus, M. R., C. A. Layman, B. K. Delius, **A. J. Wirsing**, and M. M. Dunphy-Daly. Among-individual diet variation of a marine top predator, the bull shark. Winter Wildlife Science Seminar Series, College of Forest Resources, University of Washington, Seattle.
- 2008 **Wirsing, A. J.** Using behavior to predict the consequences of large predator loss. Autumn Wildlife Science Seminar Series, College of Forest Resources, University of Washington, Seattle.
- 2008 **Wirsing, A. J.** Predicting predation risk effects in communities. Public seminar, College of Forest Resources, University of Washington, Seattle.

- 2007 **Wirsing, A. J.** Towards a predictive framework for sublethal top predator effects in marine communities. Public seminar at the University of Sydney, Sydney.
- 2007 **Wirsing, A. J.** Danger on the rise: does tidal state mediate an exchange of food for safety by the sea snake *Hydrophis elegans*? Marine Biology Seminar Series, Florida International University, North Miami.
- 2006 **Wirsing, A. J.** Living in shark infested waters: predation-sensitive foraging by dugongs in a subtropical Australian embayment. Public seminar at the Murdoch University Centre for Fish and Fisheries Research, Perth, Western Australia.
- 2004 **Wirsing, A. J., M. R. Heithaus, and L. M. Dill.** Do large, marine herbivores trade-off between food and safety? A case study using the dugong. Marine Science and Engineering Seminar Series, University of Western Australia, Crawley.
- 2002 **Wirsing, A. J.** So why don't southern snowshoe hare populations cycle? *Les Ecologistes* Seminar Series, Simon Fraser University, Burnaby, British Columbia.

CONFERENCE POSTERS

- 2001 **Wirsing, A. J., T. D. Steury, and D. L. Murray.** The relationship between body condition and vulnerability to predation in two small mammals. Annual SFU/UBC/UVIC graduate student retreat.

TEACHING EXPERIENCE

Courses

- 2010 Professor, "ESRM 450: Wildlife Ecology and Conservation", Winter Quarter, University of Washington
- 2009 Professor, "SFR 590 B: Current Topics in Behavioral Ecology", Autumn Quarter, University of Washington
- 2009 Professor, "CFR 590 D: Uses of Animal Behavior in Conservation", Spring Quarter, University of Washington
- 2009 Professor, "ESRM 450: Wildlife Ecology and Conservation", Winter Quarter, University of Washington

- 2007 Adjunct Professor, “PCB 3043: Ecology”, Florida International University
- 2000 Sessional Instructor, “WILDLIFE 314: Wildlife Ecology I”, University of Idaho
- 2000 Sessional Instructor, “WILDLIFE 315: Wildlife Ecology I Lab”, University of Idaho

Teaching Assistantships

- 2005 “Evolution”, Simon Fraser University
- 2000 “Human Dimensions of Wildlife Management”, University of Idaho

Guest Lectures

- 2009 “FISH 522 – Hot Topics in Fisheries Science and Aquaculture”, lecture titled, “The multiple roles of top of the food chain predators in aquatic ecosystems”, University of Washington
- 2009 “ENVIR 100 – Environmental Studies: Interdisciplinary Foundations”, lecture titled, “Using tiger sharks to conserve seagrass meadows”, Autumn Quarter, University of Washington
- 2009 “HONORS 100B: Knowledge Across the Disciplines”, lecture titled, “The scope of fear: large predators trigger similar indirect risk effects in marine and terrestrial systems”, University of Washington
- 2009 “GENERAL STUDIES 197G – Freshmen Seminar: Exploring Environmental Majors at the UW”, lecture titled, “The scope of fear: large predators trigger similar indirect risk effects in marine and terrestrial systems”, University of Washington
- 2009 “ESRM 150 – Wildlife in the Modern World”, lecture titled, “Beyond mortality: predator risk effects in different ecosystems”, University of Washington
- 2009 “FISH 475 – Marine Mammalogy”, lecture titled, “Do marine mammals fear their predators? Evidence and community consequences”, University of Washington
- 2009 “FISH/ENVIR 439 – Attaining a Sustainable Society”, lecture titled, “Attitudes toward sharks and the sustainability of the world’s fisheries”, University of Washington

- 2009 “LANDSCAPE ARCHITECTURE 363 – Ecological Design and Planning”, lecture titled, “Landscape geometry and the outcome of predator-prey interactions”, University of Washington
- 2009 “FOR/FW 547 – Trophic Cascades”, lecture titled, “The scope of fear: predators trigger similar indirect risk effects in marine and terrestrial systems”, Oregon State University
- 2009 “ENVIR 100 – Environmental Studies: Interdisciplinary Foundations”, lecture titled, “Using tiger sharks to conserve seagrass meadows”, Winter quarter, University of Washington
- 2009 “BIOL/CFR/FISH 567 – Topics in Advance Ecology”, two-part lecture titled, “Contingency in predator risk effects”, University of Washington
- 2008 “GENERAL STUDIES 197 – Freshmen Seminar”, lecture titled, “Using behavior to predict the consequences of large predator loss”, University of Washington
- 2008 “OCB 3043: Marine Biology and Oceanography”, lecture titled, “Marine Mammal Ecology”, Florida International University
- 2007 “BSC 4934: Coastal Marine Conservation”, lecture titled, “Towards a predictive framework for marine conservation”, Florida International University
- 2002 “BISC 304: Animal Ecology”, lecture titled, “Predators and prey: games, higher-order interactions, and lessons from a place called Shark Bay”, Simon Fraser University
- 2001 “BISC 304: Animal Ecology”, lecture titled, “So why don’t southern snowshoe hare populations cycle?”, Simon Fraser University
- 2000 “WILDLIFE 448: Multi-species Interactions”, lecture titled, “Costs and benefits of alarm response behavior”, University of Idaho
- 2000 “WILDLIFE 448: Multi-species interactions”, lecture titled “Functional, numerical, and total responses”, University of Idaho
- 2000 “WILDLIFE 316: Wildlife Ecology II”, lecture titled, “Population ecology of snowshoe hares”, University of Idaho

MENTORING EXPERIENCE

Graduate Committees

- 2009-Present MSc Thesis Committee Chair, Laurel Peelle, School of Forest Resources, University of Washington, Seattle
- 2009-Present MSc Thesis Committee Member, Carrie Schloss, School of Forest Resources, University of Washington, Seattle
- 2009-Present MSc Thesis Committee Member, Laura Farwell, School of Forest Resources, University of Washington, Seattle
- 2009-Present PhD Committee Member, Brigid Nulty, Department of Biology, University of Washington, Seattle
- 2009-Present MSc Thesis Committee Member, John Burk, School of Forest Resources, University of Washington, Seattle
- 2009-Present MSc Thesis Committee Member, Lauren Seckel, School of Forest Resources, University of Washington, Seattle
- 2009-Present PhD Committee Member, Amanda Bradford, School of Aquatic and Fishery Sciences, University of Washington, Seattle
- 2009-Present PhD Committee Member, Neala Kendall, School of Aquatic and Fishery Sciences, University of Washington, Seattle
- 2008-Present MSc Thesis Committee Member, Erica Olson, School of Resource and Environmental Management, Simon Fraser University, Burnaby

Undergraduate Mentoring

- 2009-Present Thesis (Capstone) Faculty Advisor, Program on the Environment, Tyson Wine
- 2009-Present Thesis (Capstone) Advisor, Lindsey Kirschman
- 2009-Present Thesis (Capstone) Advisor, J. Kimiko LaHaela
- 2009 Thesis (Capstone) Advisor, Mathew E. Weintraub
- 2006 Student Mentor, Strategies for Ecology Education, Development, and Sustainability (SEEDS), 91st Annual Meeting of the Ecological Society of America

RESEARCH GRANTS

- 2009 Royalty Research Fund (RRF) Grant titled, “Using snowshoe hare responses to forest stand structure and fragmentation to guide lynx recovery in Washington”, University of Washington (**\$39,073** over 1 year)
- 2007 National Geographic Society Committee for Research and Exploration (CRE) grant titled, “Does habitat structure affect depth preferences and indirect effects of tiger sharks in a seagrass community?”, Florida International University (**\$24,000** over 1 year)
- 2006 National Science Foundation grant (OCE-526065, Division of Biological Oceanography; \$547,000 US) titled, “Behaviorally mediated indirect species interactions in a subtropical seagrass community”, Florida International University (**\$547,000** over 3 years)
- 2003 National Geographic Society Expeditions Council Grant titled, “Foraging ecology of dugongs in a pristine seagrass ecosystem”, Simon Fraser University (**\$22,500** over 1 year)

SCHOLARSHIPS

- 2005 Graduate Research Fellowship (\$6,000 CDN), Simon Fraser University
- 2005 NSERC Graduate Travel Award (\$700 CDN), Simon Fraser University
- 2005 President’s PhD Research Stipend (\$6,000 CDN), Simon Fraser University
- 2004 Graduate Research Fellowship (\$6,000 CDN), Simon Fraser University
- 2003 Graduate Research Fellowship (\$6,000 CDN), Simon Fraser University
- 2003 Glen Geen Graduate Scholarship in Marine Biology (\$880 CDN)
- 2002 William and Ida Isabelle Steel Memorial Graduate Scholarship (\$17,000 CDN), Simon Fraser University
- 2002 Canadian Fishing Company Graduate Scholarship (\$1,500 CDN), Simon Fraser University
- 2001 Graduate Research Fellowship (\$5,200 CDN), Simon Fraser University

ACADEMIC DISTINCTIONS AND AWARDS

- 2001 Outstanding Instructor Award, nominated by a student with a disability, University of Idaho
- 2001 Outstanding Graduate Student Award, Department of Fish and Wildlife Resources, University of Idaho
- 2000 Ted Trueblood Communications Award, Best graduate student presentation, Annual meeting of the Idaho Chapter of the Wildlife Society

ACADEMIC SERVICE

- 2009-Present Member, Washington State Lynx Working Group, Partnership involving the Bureau of Land Management, Conservation Northwest, United States Department of Agriculture Forest Service, United States Fish and Wildlife Service, University of Washington, Washington Department of Fish and Wildlife, and Washington Department of Natural Resources that meets biennially with the goal of facilitating lynx research and recovery in the Pacific Northwest.
- 2009 Participant, Climate Change and Wildlife on the Olympic Peninsula: Workshop I, August 11 (9am – 12pm)
- 2009 Participant, CFR Centennial Grove maintenance, Union Bay Natural Area, University of Washington Botanic Gardens, April 4 (9am – 12pm)
- 2008-Present Student Chapter Advisor, The Wildlife Society, University of Washington
- 2004 Coordinator, joint venture involving researchers from Simon Fraser University, the Western Australian Department of Conservation and Land Management (CALM), and the Yadgalah Aboriginal Corporation to fit loggerhead turtles with satellite tags (5 deployments)
- 2003 Coordinator, joint venture involving researchers from Simon Fraser University, the Western Australian Department of Conservation and Land Management (CALM), and the Yadgalah Aboriginal Corporation to fit dugongs with underwater video and data recording systems (Critttercam; 3 deployments)

- 2002-Present Peer reviewer for *Acta Theriologica*, *Animal Behaviour*, *Animal Conservation*, *Australian Journal of Zoology*, *Behavioral Ecology and Sociobiology*, *Biological Conservation*, *Conservation Biology*, *Ecological Research*, *Ecology*, *Ecoscience*, *Ethology*, *Journal of Wildlife Management*, *Marine Biology*, *Marine and Freshwater Research*, *Marine Mammal Science*, *Oecologia*, *Oikos*, *Physiological and Biochemical Zoology*, *Wildlife Biology*, *Wildlife Research*
- 2002-Present Grant reviewer for National Geographic Society Committee for Research and Exploration (CRE), National Science Foundation (Biological Oceanography)
- 2001 Participant, Burnaby Mountain Biodiversity Challenge, Simon Fraser University
- 2000 Graduate student representative, 5th Year Review Committee for Dr. Kerry Reese, University of Idaho

PUBLIC OUTREACH

- 2009 Featured speaker, University of Washington Television program titled, “Carnivore Conservation in the Pacific Northwest”
- 2007 Featured biologist, on-line *Discovery News* article titled, “Tiger Sharks Keep Seagrass Tidy”
- 2007 Featured biologist, Network Ten Australia wildlife documentary titled, “Dugongs in Shark Bay” (part of the *Totally Wild* series)
- 2006 Featured biologist, book titled *Gone to Shark Bay*, University of Western Australia Press
- 2006 Guest biologist, Network Ten Australia wildlife documentary titled, “Mysteries of Shark Bay” (part of the *Totally Wild* series)
- 2004 Guest biologist, Australian Broadcasting Channel (ABC) wildlife documentary titled, “Shark Bay”
- 2004 Featured biologist, National Geographic Television wildlife documentary titled, “ Dugongs”, episode 11 of the *Crittercam* series
- 2004 Guest biologist, National Geographic Television wildlife documentary titled, “Turtles”, episode 13 of the *Crittercam* series

2002-2006 Weekly research seminar speaker, talk titled, “Shark Bay: realm of the tiger shark”, given to visitors to the Monkey Mia Dolphin Resort, Western Australia