AARON JOHN WIRSING

School of Environmental and Forest Sciences
University of Washington
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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 Environmental and Forest Sciences (SEFS),

University of Washington

2006-2008 Post-doctoral Research Associate, Department of Biological Sciences, Florida

International University

REFEREED PUBLICATIONS

In press

Wirsing, A. J., J. R. Phillips, M. E. Obbard, and D. L. Murray. Incidental nest predation in freshwater turtles: inter- and intra-specific differences in vulnerability are explained by relative crypsis. Oecologia.

2011

Ripple, W. J., **A. J. Wirsing**, R. L. Beschta, and S. W. Buskirk. 2011. Can restoring wolves aid in lynx recovery? Wildlife Society Bulletin 35: 514-518.

Wirsing, A. J., and W. J. Ripple. 2011. A comparison of shark and wolf research reveals similar behavioral responses by prey. Frontiers in Ecology and the Environment 9: 335-341.

Wirsing, A. J., M. R. Heithaus, and L. M. Dill. 2011. Predator-induced modifications to diving behavior vary with foraging mode. Oikos 120: 1005-1012.

2010

Dunphy-Daly, M. M., M. R. Heithaus. **A. J. Wirsing**, J. S. F. Mardon, and D. A. Burkholder. 2010. Predation risk influences the diving behavior of a marine mesopredator. The Open Ecology Journal 3: 8-15.

Wirsing, A. J., K. E. Cameron, and M. R. Heithaus. 2010. Spatial responses to predators vary with prey escape mode. Animal Behaviour 79: 531-537.

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. 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.

- **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**. 2010. Unraveling the ecological importance of elasmobranchs. Pages 611-637 *in* Sharks and Their Relatives II: Biodiversity, Adaptive Physiology, and Conservation (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.

RESEARCH GRANTS AND CONTRACTS

2011

United States Forest Service Cost Reimbursable Agreement (non-competitive grant) titled, "Patterns of predation on snowshoe hares in north-central Washington", University of Washington (\$10,000 over 16 months)

McIntire-Stennis Equipment Grant titled, "Does anti-predator behavior modify indirect effects of top predators?", University of Washington (\$10,468 over 1 year)

2010

McIntire-Stennis Cooperative Forestry Research Grant titled, "Fine-scale resource use by snowshoe hares in the boreal forests of north-central Washington", University of Washington (\$13,000 over 1 year)

McIntire-Stennis Cooperative Forestry Research Grant titled, "Assessing the role of harvest intensity in improving forest health and providing biodiversity as an ecosystem service: A comparison of western and eastern Cascade forests", University of Washington (\$10,110 over 1 year)

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 3 years)

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 4 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)

CONFERENCE PRESENTATIONS

2011

Wirsing, A. J., M. R. Heithaus, and L. M. Dill. Anti-predator responses of diving dugongs depend on foraging mode. 19th Biennial Conference on the Biology of Marine Mammals.

Santos, L. O., A. N. Zerbini, J. L. Laake, K. J. Raedeke, and **A. J. Wirsing**. Estimating abundance of harbor porpoises in Puget Sound, WA: A correction for observer bias. 19th Biennial Conference on the Biology of Marine Mammals.

Wirsing, A. J., W. J. Ripple, R. L. Beschta, and S. W. Buskirk. Can restoring wolves help lynx recovery? Special Session titled, "Predator interactions on both sides of the Pacific", 91st Annual Meeting of the American Society of Mammalogists.

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.

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.

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.

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, University of Washington.

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.

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.

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.

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.

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. 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

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.

Wirsing, A. J. Using tiger sharks to protect and restore seagrass meadows. Aquatic and Fishery Sciences Spring Departmental Seminar Series, University of Washington, Seattle.

Wirsing, A. J. Carnivore conservation in the Pacific Northwest. "Sustaining Our Northwest World" Winter Lecture Series, College of Forest Resources, University of Washington, Seattle.

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, University of Washington, Seattle.

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.

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, University of Sydney, Sydney, New South Wales.

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, 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

2011

"CFR 590 B: Current Topics in Behavioral Ecology", Autumn Quarter, University of Washington

"CFR 590 D: Uses of Animal Behavior in Conservation", Spring Quarter, University of Washington

"ESRM 459: Wildlife Conservation in Northwest Ecosystems", Spring Quarter, University of Washington

"ESRM 450: Wildlife Ecology and Conservation", Winter Quarter, University of Washington

2010

"CFR 590 B: Current Topics in Behavioral Ecology", Autumn Quarter, University of Washington

"CFR 590 D: Uses of Animal Behavior in Conservation", Spring Quarter, University of Washington

"ESRM 459: Wildlife Conservation in Northwest Ecosystems", Spring Quarter, University of Washington

"ESRM 450: Wildlife Ecology and Conservation", Winter Quarter, University of Washington

2009

"CFR 590 B: Current Topics in Behavioral Ecology", Autumn Quarter, University of Washington

"CFR 590 D: Uses of Animal Behavior in Conservation", Spring Quarter, University of Washington

"ESRM 450: Wildlife Ecology and Conservation", Winter Quarter, University of Washington

2007

"PCB 3043: Ecology", Florida International University

2000

"WILDLIFE 314: Wildlife Ecology I", University of Idaho

"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

2011

"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

"GENERAL STUDIES 197K – Wolves: Natural History, Behavior, and Society", lecture titled, "The wolf-elk relationship: elk anti-predator behavior and its ecosystem consequences", University of Washington

"ESRM 150 – Wildlife in the Modern World", lecture titled, "Prey responses to predators depend on escape behavior: a cross-ecosystem comparison", University of Washington

"FOR/FW 547 – Trophic Cascades", lecture titled, "Responses to predators depend on prey escape behavior: implications for trophic cascades", Oregon State University

"BIOL/CFR/FISH 567 – Topics in Advance Ecology", two-part lecture titled, "Contingency in risk effects of predators", University of Washington

"ENVIR 100 – Environmental Studies: Interdisciplinary Foundations", lecture titled, "Using tiger sharks to restore seagrass meadows", University of Washington

"FISH 497 – Conservation of Sharks: History and Future", lecture titled, "The behavior and ecological effects of tiger sharks", University of Washington

2010

"ESRM 150 – Wildlife in the Modern World", lecture titled, "Prey responses to predators depend on escape behavior: a cross-ecosystem comparison", University of Washington

"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

"ENVIR 100 – Environmental Studies: Interdisciplinary Foundations", lecture titled, "Using tiger sharks to restore seagrass meadows", University of Washington

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

"ENVIR 100 – Environmental Studies: Interdisciplinary Foundations", lecture titled, "Using tiger sharks to restore seagrass meadows", University of Washington

"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

"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

"ESRM 150 – Wildlife in the Modern World", lecture titled, "Beyond mortality: predator risk effects in different ecosystems", University of Washington

"FISH 475 – Marine Mammalogy", lecture titled, "Do marine mammals fear their predators? Evidence and community consequences", University of Washington

"FISH/ENVIR 439 – Attaining a Sustainable Society", lecture titled, "Attitudes toward sharks and the sustainability of the world's fisheries", University of Washington

"LANDSCAPE ARCHITECTURE 363 – Ecological Design and Planning", lecture titled, "Landscape geometry and the outcome of predator-prey interactions", University of Washington

"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

"ENVIR 100 – Environmental Studies: Interdisciplinary Foundations", lecture titled, "Using tiger sharks to restore seagrass meadows", University of Washington

"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

"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

"WILDLIFE 448: Multi-species interactions", lecture titled "Functional, numerical, and total responses", University of Idaho

"WILDLIFE 316: Wildlife Ecology II", lecture titled, "Population ecology of snowshoe hares", University of Idaho

MENTORING EXPERIENCE

Graduate Students (active)

2011-Present	MSc Committee Chair, Jeff Harris, SEFS, University of Washington
2011-Present	MSc Committee Chair, Kristen Rishardson, SEFS, University of Washington
2010-Present	MSc Committee Chair, Jessica Bolis, SEFS, University of Washington
2010-Present	PhD Committee Chair, Jeffrey Smith, SEFS, University of Washington
2010-Present	PhD Committee Chair, Linda Uyeda, SEFS, University of Washington
2009-Present	MSc Committee Chair, Laurel Peelle, SEFS, University of Washington

Graduate Committees (active)

2011-Present	Master of Science in Biology Teaching (MBST) Program Committee Member, Emily Owens, University of Washington
2010-Present	PhD Committee Member, Chris Gast, Quantitative Ecology and Resource Management (QERM), University of Washington
2010-Present	MSc Committee Member, Christie Galitski, SEFS, University of Washington
2010-Present	PhD Committee Member, Morgan Bond, School of Aquatic and Fishery Sciences, University of Washington

Graduate Committees (completed)

2008-2011	MSc Committee Member, Erica Olson, School of Resource and Environmental Management, Simon Fraser University
2009-2011	MSc Committee Member, Luciana Santos, School of Forest Resources, University of Washington
2009-2011	PhD Committee Member, Neala Kendall, School of Aquatic and Fishery Sciences, University of Washington

2011	PhD Committee Member, Jonathan Reum, School of Aquatic and Fishery Sciences, University of Washington (*Late replacement as GSR)
2010-2011	MSc Committee Member, Kristine Mazur, School of Forest Resources, University of Washington
2009-2011	MSc Committee Member, Carrie Schloss, School of Forest Resources, University of Washington
2009-2011	MSc Committee Member, Laura Farwell, School of Forest Resources, University of Washington
2009-2011	MSc Committee Member, Lauren Seckel, School of Forest Resources, University of Washington
2009-2011	MSc Committee Member, John Burk, School of Forest Resources, University of Washington
2009-2011	PhD Committee Member, Amanda Bradford, School of Aquatic and Fishery Sciences, University of Washington
2008	Master of Science in Biology Teaching (MBST) Program Committee Member, Linda Uyeda, University of Washington

Undergraduate Mentoring

2012-Present	Thesis (Capstone) Advisor, Andrea Nichols
2011-Present	Thesis (Capstone) Advisor, Lyndsay Gordon
2011-Present	Thesis (Capstone) Advisor, Jessica Gray
2011-Present	Thesis (Capstone) Advisor, Russell Pharr
2011	Thesis (Capstone) Advisor, Sara Meicho
2011	Thesis (Capstone) Advisor, Marlena Staton
2011	Thesis (Capstone) Advisor, Ashley Kees
2011	Thesis (Capstone) Advisor, Randy Bacon
2010-2011	Thesis (Capstone) Faculty Advisor, Program on the Environment, Cara Appel
2010	Thesis (Capstone) Faculty Advisor, Program on the Environment, Tyson Wine

2009-2010	Thesis (Capstone) Advisor, Lindsey Kirschman
2009-2010	Thesis (Capstone) Advisor, J. Kimiko LaHaela
2009	Thesis (Capstone) Advisor, Mathew E. Weintraub
2006	Student Mentor, Strategies for Ecology Education, Development, and Sustainability (SEEDS), 91 st Annual Meeting of the Ecological Society of America

SCHOLARSHIPS

2005

Graduate Research Fellowship (\$6,000 CDN), Simon Fraser University

NSERC Graduate Travel Award (\$700 CDN), Simon Fraser University

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

Glen Geen Graduate Scholarship in Marine Biology (\$880 CDN)

2002

William and Ida Isabelle Steel Memorial Graduate Scholarship (\$17,000 CDN), Simon Fraser University

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

2011

Winter Quarter Faculty Teaching Award, School of Forest Resources, University of Washington

2010

Winter Quarter Faculty Teaching Award, School of Forest Resources, University of Washington

2001

Outstanding Instructor Award, nominated by a student with a disability, University of Idaho

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		
2011	Faculty Portfolio Committee, tasked with identifying future needs in teaching, research, and outreach, SEFS	
2011	Faculty panel member, Graduate student orientation, School of Forest Resources	
2011	Expert commentator, <i>USA Today</i> article titled, "Loss of predators in the food chain can alter the ecosystem" (article published on July 15)	
2011	Expert commentator, <i>ScienceNOW</i> article titled, "Why penguins are afraid of the dark" (article published on-line in June)	
2011	Advisor, Dead Elk Society, spring and autumn quarters	
2011	Faculty Advisor, ESRM 490 H ("Indirect linkages in Ecology"), spring quarter	

2011	Peer reviewer, book titled, "Behavioural Responses to a changing world: Mechanisms and Consequences"
2010-Present	Member, Lynx Research Science Advisory Committee, Convened to evaluate ongoing lynx research effort headed by the Washington Department of Fish and Wildlife
2010	Peer reviewer, manuscript titled, "Cougar prey use in a wildland-urban environment in western Washington" to be submitted to the <i>Journal of Mammalogy</i> , Washington Cooperative Fish and Wildlife Research Unit, University of Washington
2010	Peer reviewer, report titled, "Climate change and wildlife habitat management at Olympic National Forest and Olympic National Park", prepared by participants of the Wildlife Adaptation Workshop representing Olympic National Park, Olympic National Forest, United States Geological Survey, Forest Service, and University of Washington
2010	Faculty panel member, Graduate student orientation, School of Forest Resources
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, 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 (Crittercam; 3 deployments)

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

	PUBLIC EDUCATION AND OUTREACH
2011	Featured author, "Beyond the Frontier", monthly podcast produced by the Ecological Society of America in which authors whose articles will appear in the upcoming issue of <i>Frontiers in Ecology and the Environment</i> are interviewed (podcast aired in August)
2011	Guest Speaker, Educational talk titled, "Lynx, snowshoe hares, and the future of Washington's boreal forests", Streamkeeper Academy, Adopt A Stream Foundation (AASF), Everett, WA
2010	Guest Speaker, Educational talk titled, "Lynx, snowshoe hares, and the future of Washington's boreal forests", Streamkeeper Academy, Adopt A Stream Foundation (AASF), Everett, WA
2009	Featured speaker, University of Washington Television program titled, "Carnivore Conservation in the Pacific Northwest"
2007	Featured biologist, on-line <i>Discovery News</i> article titled, "Tiger Sharks Keep Seagrass Tidy"
2007	Featured biologist, Network Ten Australia wildlife documentary titled, "Dugongs in Shark Bay" (part of the <i>Totally Wild</i> series)

2006	Featured biologist, book titled <i>Gone to Shark Bay</i> , University of Western Australia Press
2006	Guest biologist, Network Ten Australia wildlife documentary titled, "Mysteries of Shark Bay" (part of the <i>Totally Wild</i> 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 <i>Crittercam</i> series
2004	Guest biologist, National Geographic Television wildlife documentary titled, "Turtles", episode 13 of the <i>Crittercam</i> series
2002-2007	Weekly research seminar speaker, talk titled, "Shark Bay: realm of the tiger shark", given to visitors to the Monkey Mia Dolphin Resort, Western Australia