



# John P. Volpe

Associate Professor

## PERSONAL SUMMARY

I and my students use data intensive approaches to uncover linkages between ecological and social sustainability, particularly with regard to sustainable food, wine, aquaculture and marine resources.

## AREAS OF EXPERTISE

Aquaculture  
Ecogastronomy  
[Sea]Food Ecology  
Macroecology  
Terroir

## FUNDING TO DATE

\$4,112,427

## UNDERGRADUATES TAUGHT

4499 Students

## GRAD DEGREES SUPERVISED

25 MSc | 6 PhD | 1 MA

## EDUCATION

BSc U of Guelph 1991  
MSc U of Guelph 1994  
PhD U of Victoria 2001

## EMPLOYMENT HISTORY

2012-Pres. Assoc. Professor UVic  
2015-17 2Lt Can Armed Forces  
2005-11 Asst. Professor UVic  
2001-04 Asst. Professor Alberta  
2000 Lecturer ENVI UVic  
1995-96 Fish Bio BC Min Env

## CONTACT

UVic - University House 4  
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Victoria, BC, Canada V8W-2Y2  
[www.johnvolpe.ca](http://www.johnvolpe.ca)

## APPOINTMENTS & HONOURS

2013 Research Excellence Award - Faculty of Social Science, UVic  
2010 Appointed Associate Professor University of Victoria  
2007 Nominated – NSERC Steacie Fellow  
2006 Nominated – NSERC Steacie Fellow  
2005 Appointed Assistant Professor University of Victoria  
2004 Nominated - Canada Research Chair Tier II, U of Victoria  
2004 Nominated - Pew Fellow  
2003 Adjunct Professor, Fisheries Centre, U. of British Columbia  
2003 Adjunct Professor, Biology Department, U. of Victoria  
2001 Appointed Asst Professor University of Alberta  
2001 Nominated - Canada Research Chair Tier II, U of Alberta  
2001 NSERC Post Doctoral Fellowship (declined)  
2000 “133 Young Leaders of the New Millennium” Globe and Mail

## UVIC COURSES

ES 200 Introduction to Environmental Studies  
ES 240 Ecological Processes  
ES 341 Ecological Restoration  
ES 381 Ecology and Culture of Food  
ES 431 History, Science & Culture of Wine  
ES 446 Sustainable Fisheries  
ES 482 Natural History and Ecology of Biological Invasions  
ES 482 Complex Systems in Nature  
ES 500 Environmental Theories, Methods and Skills I  
ES 501 Environmental Theories, Methods and Skills II  
ES 503 / 603 Environmental Studies Graduate Colloquium

## REFEREED PUBLISHED ARTICLES (Supervised Students during research)

- 2019 Stewart, F.E.C., J.P. Volpe, J.T. Fisher. The debate about bait is a red herring in conservation research. **Journal of Wildlife Management** *Accepted*.
- Frey, S., J.P. Volpe, N.A. Heim, J. Paczjowski, and J.T. Fisher. Carnivore species alter activity patterns and temporal niche partitioning in response to anthropogenic landscape change. **Journal of Applied Ecology.** *Submitted*.
- 2018 Heim, N.A., J.T. Fisher, J.P. Volpe, A.P. Clevenger, J. Paczkowski. Carnivore community responses to anthropogenic landscape change: species-specificity foils generalizations. *In Review* **Biological Conservation** BIOC\_2018\_1428
- Stewart, F.E.C., S. Darlington, J.P. Volpe, M. McAdie, J.T. Fisher. The matrix matters: natural habitat within working landscapes predicts functional connectivity better than protected areas. *In Review* **Journal of Applied Ecology**
- Stewart, F.E.C., J.P. Volpe, B.R. Eaton, G.A. Hood, D. Vujnovic, and J.T. Fisher. Protected area networks are only as valuable as the landscapes they conserve. *In Review* **Biological Conservation**
- Stewart, F.E.C., J.T. Fisher, A.C. Burton, and J.P. Volpe. Species occurrence data reflect the magnitude of animal movements better than the proximity of animal space-use. **Ecosphere** 9(2):ecs2.2112
- Burgar J.M., F.E.C. Stewart, J.P. Volpe, J.T. Fisher and A.C. Burton. 2018. Estimating density for species conservation: comparing camera trap spatial count models to genetic spatial capture-recapture models. **Global Ecology and Conservation** (15:e0014)
- 2017 Frey, S.A., J.T. Fisher, A.C. Burton and J.P. Volpe. 2017. Investigating animal activity patterns and temporal niche partitioning using camera trap data: Challenges and Opportunities. **Remote Sensing in Ecology and Conservation** 3(3):123-132
- Stewart, F.E.C., J.P. Volpe, J.S. Taylor, J. Bowman, P.J. Thomas, M.J. Pybus and J.T. Fisher. Distinguishing reintroduction from recolonization with genetic testing. **Biological Conservation** 214:242-249
- Heim, N.A., J.T. Fisher, A.P. Clevenger, J. Paczkowski, J.P. Volpe. Cumulative effects of climate and landscape change drive spatial distribution of Rocky Mountain wolverine. **Ecology and Evolution** 7(21):8903-8914
- 2016 Stewart F.E.C., N.A. Heim, A.P. Clevenger, J. Paczkowski, J.P. Volpe, and J.T. Fisher. Wolverine behaviour varies spatially with anthropogenic footprint: implications for conservation and inferences about declines. **Ecology and Evolution** 6:1493-1503

- Lancaster, D., P. Dearden, D.R. Haggarty, J.P. Volpe, N.C. Ban. 2016. Effectiveness of shore-based remote camera monitoring for quantifying recreational fisher compliance in marine conservation areas. **Aquatic Conservation** 27(4):804-813
- 2014** Fisher, J.T., C. Pasztor, A. Wilson, J.P. Volpe, and B. Anholt. 2014. Recolonizing sea otters spatially segregate from pinnipeds on the Canadian Pacific coastline: The implications of segregation for species conservation. **Biological Conservation** 177:148-155.
- Fisher, A.C., J.P. Volpe and J.T. Fisher. 2014. Occupancy dynamics of escaped farmed Atlantic salmon in Canadian Pacific coastal salmon streams. **Biological Invasions** 16:2137-2146.
- 2013** Price, M. A. Morton, J.G. Eriksson and J.P. Volpe. 2013. Fish processing facilities: new challenge to marine biosecurity in Canada. **Journal of Aquatic Animal Health** 25:290-294.
- Volpe, J.P., J.L.M. Gee, V.A. Ethier, M. Beck, A.J. Wilson and J.M.S. Stoner. 2013. Global Aquaculture Performance Index (GAPI): The first global environmental assessment of marine fish farming. **Sustainability** 5:3976-3991.
- Fisher, J.T., S. Bradbury, B. Anholt, L. Nolan, L. Roy, J.P. Volpe, and M. Wheatley. 2013. Wolverines on the Rocky Mountain slopes: natural heterogeneity and landscape alteration as predictors of distribution. **Canadian Journal of Zoology**. 91:706-716
- Fisher, J.T., B. Anholt, S. Bradbury, M. Wheatley, and J.P. Volpe. 2013. Spatial segregation of sympatric marten and fishers: the influence of landscapes and species-scapes. **Ecography** 36:240-248.
- 2011** Fisher, J.T., B. Anholt, and J.P. Volpe. 2011. Body mass explains characteristic scales of habitat selection in terrestrial mammals. **Ecology and Evolution** 1:517-528.
- Liu, Y. R.U. Sumaila, J.P. Volpe. 2011. The potential ecological and economic impacts of sea lice from farmed salmon on wild salmon fisheries. **Ecological Economics** 70: 1746-1755.
- Krkosek, M.K., B.M. Connors, H.A. Ford, S. Peacock, P. Mages, J.S. Ford, A. Morton, J.P. Volpe, L.M. Dill, M.A. Lewis. 2011. Fish farms, parasites, and predators: implications for salmon population dynamics. **Ecological Applications** 21:897-914.
- 2009** Krkosek, M.K., A. Morton, J.P. Volpe, M.A. Lewis. 2009. Sea lice and salmon population dynamics: Effects of exposure for migratory fish. 2009. **Proceedings of the Royal Society of London, Series B**. 276:2819-2828.
- Volpe, J.P. 2009. The efficiency trap. **Food Ethics** 4: 41-42.
- 2008** Kelly, J.R., H. Proctor and J.P. Volpe. 2008. Displacement of native eelgrass (*Zostera marina* L.) by introduced oysters (*Crassostrea gigas* Thunberg) significantly alters intertidal community structure. **Hydrobiologia** 596:57-66.

- Kelly, J.R., and J.P. Volpe. 2008. Effects of non-native oyster (*Crassostrea gigas* Thunberg) on native eelgrass (*Zostera marina* L.) in the Strait of Georgia, British Columbia. **Botanica Marina** 50:143-150.
- 2007** Volpe, J.P. 2007. Reconciling fisheries with conservation and the ecological footprint of aquaculture. 4<sup>th</sup> World Fisheries Congress. **American Fisheries Society Symposium** 49:587-589.
- Rodtka, M.C. and J.P. Volpe. 2007. Effects of water temperature on interspecific competition between juvenile bull trout and brook trout in an artificial stream. **Transaction of the American Fisheries Society** 136: 1714-1727.
- Sumaila, U.R., J. Volpe and Y. Liu 2007. Potential economic benefits from sablefish farming in British Columbia. **Marine Policy** 31: 81-84.
- 2006** Krkošek, M., M.A. Lewis, A. Morton, L.N. Frazer and J.P. Volpe, 2006. Epizootics of wild fish induced by farm fish. **Proceedings of the National Academy of Sciences USA** 103: 15506-15510.
- Krkošek, M., M.A. Lewis, J.P. Volpe and A. Morton. 2006. Fish farms and sea lice infestations in wild juvenile salmon in the Broughton Archipelago – A rebuttal to Brooks (2005). **Reviews in Fisheries Science** 14: 1-11.
- 2005** Krkošek, M., A. Morton, J.P. Volpe. 2005. Non-lethal assessment of juvenile Pacific salmon for parasitic sea lice infections **Transactions of the American Fisheries Society** 134: 711-716.
- Naylor, R., K. Hindar, I. Fleming, R. Goldberg, S. Williams, J.P. Volpe, F. Whoriskey, J. Eagle, D. Kelso, M. Mangel. 2005. Fugitive Salmon: A Framework for Assessing Risks of Escaped Fish from Aquaculture. **BioScience** 55: 427-437.
- Krkošek, M., M.A. Lewis and J.P. Volpe. 2005. Transmission dynamics of parasitic sea lice from farm to wild salmon. **Proceedings of the Royal Society of London, Series B.** 272:689-696.
- Volpe, J.P. 2005. Reply to Allen: Dollars without sense: The bait for big-money tuna ranching around the world. **BioScience**. 55:644.
- Volpe, J.P. 2005. Dollars without sense: The bait for big-money tuna ranching around the world. **BioScience**. 55:301-302.
- 2002** Morton, A. and J.P. Volpe. 2002. A description of Atlantic salmon *Salmo salar* in the Pacific salmon fishery in British Columbia, Canada, in 2000. **Alaska Fishery Research Bulletin** 9: 102-110.
- 2001** Volpe, J.P., B.W. Glickman and B.R. Anholt. 2001. Reproduction of Atlantic salmon (*Salmo salar*) in a controlled stream channel on Vancouver Island, British Columbia.

**Transactions of the American Fisheries Society** 130: 489-494.

Volpe, J.P., B.R. Anholt and B.W. Glickman. 2001. Competition among juvenile Atlantic salmon (*Salmo salar*) and steelhead trout (*Oncorhynchus mykiss*): Relevance to invasion potential in British Columbia. **Canadian Journal of Fisheries and Aquatic Sciences** 58: 197-207.

Volpe, J.P. and B.R. Anholt. 2001. Atlantic salmon (*Salmo salar*) in British Columbia. In **Marine Bioinvasions: Proceedings of the First National Conference** (January 24-27 1999; edited by J. Pederson). Massachusetts Institute of Technology, Cambridge, MA. pp. 256-259.

2000 Volpe, J.P. and G. Horne. 2000. A simple and inexpensive method for providing natural forage in a laboratory environment. **North American Journal of Fisheries Management**. 20: 801-803.

Volpe, J.P., E.B. Taylor, D.W. Rimmer, B.W. Glickman. 2000. Natural reproduction of aquaculture escaped Atlantic salmon (*Salmo salar*) in a coastal British Columbia river. **Conservation Biology** 14: 899-903.

1997 Taylor, E.B., Harvey, S., Pollard, and J. Volpe. 1997. Postglacial genetic differentiation between reproductive ecotypes of kokanee (*Oncorhynchus nerka*) in Okanagan Lake, British Columbia. **Molecular Ecology** 6: 503-517.

1996 da Cruz, A.D., J.P. Volpe, V. Saddi, J. Curry, M.P. Curado, B.W. Glickman. 1997. Radiation risk estimation in human populations: Lessons from the radiological accident in Brazil. **Mutation Research**. 373: 207-217.

Volpe, J.P. and M.M. Ferguson. 1996. Molecular genetic examination of the polymorphic Arctic charr, *Salvelinus alpinus*, of Thingvallavatn, Iceland. **Molecular Ecology** 5: 763-772.

## BOOK CHAPTERS

Siddique, M. A. L and J.P. Volpe. 2009. Chapter 9. Eco-friendly sustainable shrimp aquaculture in Bangladesh: A way of minimizing coastal degradation. In Moksness, Dahl, Strotrupp (eds.) **Integrated Coastal Zone Management**. Blackwell Publishing, UK.

Volpe, J.P. and K. Shaw. 2008. Fish farms and neoliberalism: Salmon aquaculture in British Columbia. In C. Gore and P. Stoett (eds.) **Environmental Challenges & Opportunities: Local-Global Perspectives on Canadian Issues**. Emond Montgomery, Toronto.

Volpe, J.P. 2006. "Salmon sovereignty" and the dilemma of intensive Atlantic salmon aquaculture development in British Columbia. In Parrish, C.C., N.J. Turner, and S.M. Solberg (eds.). **Resetting the Kitchen Table: Food Security, Culture, Health and Resilience in Coastal Communities**. Hauppague, NY: Nova Science Publishers

Dai, Hahn, Hawryshan, Lee, Temple, Kennedy, Neis, Parrish, Russo, Garrido, Stanley, Turner, Volpe, and Wroblewski. 2005. Future Options I: Aquaculture, Hatcheries, Tourism, Transportation,

and Local Initiatives. In Ommer, R.E. and the Coasts Under Stress research project team. **Coasts Under Stress: Restructuring and Social-Ecological Health**. Montreal, PQ: McGill-Queen's University Press.

Wroblewski, J., J.P. Volpe and D. Bavington. 2005. Manufacturing fish: Transition from wild harvest to aquaculture. In Sinclair, P.R. and R.E. Ommer (eds.) **Power and Restructuring: Canada's Coastal Society and Environment**. St. John's, NL: ISER Books.

## OTHER PUBLICATIONS & RESEARCH PRODUCTS

- Volpe, J.P. 2017. Comment: The science is in - Salmon farms need to be out. *Times Colonist* November 19.
- Volpe, J.P., J. Gee, M. Beck, V. Ethier. 2011. How Green Is Your Eco-label? Comparing the Environmental Benefits of Marine Aquaculture Standards. University of Victoria, Victoria, British Columbia, Canada. 56pgs. <[www.gapi.ca](http://www.gapi.ca)>
- Volpe, J.P., M. Beck, V. Ethier, J. Gee, A. Wilson. 2010. Global Aquaculture Performance Index. University of Victoria, Victoria, British Columbia, Canada. 116pgs <[www.gapi.ca](http://www.gapi.ca)>
- Volpe, J.P. 2009. Salmoni come polli. **Slow Food Journal** 39: 60-62 (in Italian)
- Sumaila, U.R., J.P. Volpe and Y. Liu. 2005 Ecological and Economic Impact Assessment of Sablefish Aquaculture in British Columbia. **Fisheries Centre Research Reports** 13: 3
- Volpe, J.P. 2004. Book review: *Imperfect Symmetry: Thermodynamics in Ecology and Evolution* by Lionel Johnson. **Fish and Fisheries**. 5:346-347.
- Volpe, J.P. 2004. Salmon Scare? Guest Columnist. **Seattle Post Intelligencer**. 1-25-04
- Volpe, J.P. 2003. Farming uncertainty in coastal British Columbia. **The Osprey** 44: 1, 6-8.
- Volpe, J.P. 2001. Super-Unnatural BC: Atlantic salmon in British Columbia. David Suzuki Foundation, Vancouver B.C. 32pp.
- Volpe, J.P. 2001. Invasion ecology of Atlantic salmon (*Salmo salar*) in British Columbia. **Ph.D. Thesis**. University of Victoria, British Columbia.
- Volpe, J.P. 2001. Farming uncertainty in coastal British Columbia. **The Steelhead Release** Autumn 2001: 20-25.
- Volpe, J.P. 2000. How do we know what we don't know? Atlantic salmon in British Columbia: A review. In P. Gallagher and C. Orr (eds.) *Aquaculture and the Protection of Wild Salmon: Speaking for the Salmon Workshop Proceedings*, Simon Fraser University March 1-3 2000 pp. 28-33.
- Volpe, J.P. 2000. The occurrence of Atlantic salmon in coastal streams of southern British Columbia during 1999. British Columbia Ministry of Environment Lands and Parks Regional File Report. Nanaimo, British Columbia
- Volpe, J.P. 2000. Atlantic salmon vs. Pacific salmon in British Columbia, Canada. **Aliens** 10: 21-22.
- Volpe, J.P. Salmon Roulette: Are we risking our Pacific salmon heritage for Atlantic salmon aquaculture? **The National Post**. October 20 1999 (*Editorial*).
- Volpe, J.P. 1999. The occurrence of Atlantic salmon in coastal streams of southern British Columbia during 1998. British Columbia Ministry of Environment Lands and Parks Regional File Report. Nanaimo, British Columbia.
- Volpe, J.P. 1998. The occurrence of Atlantic salmon in coastal streams of southern British Columbia during 1997. British Columbia Ministry of Environment Lands and Parks Regional File Report. Nanaimo, British Columbia.
- Volpe, J.P. Pennask Lake Broodstock Management Plan. Technical File. Fish Culture Section, Fisheries Branch B.C. Min. of Environment, Lands & Parks. January 1996. 36p.

Volpe, J.P. Premier Lake Broodstock Management Plan. Technical File. Fish Culture Section, Fisheries Branch B.C. Min. of Environment, Lands & Parks. January 1996. 43p.

Volpe, J.P. *Broodstock Summary Database*, Ver. 1.0. and User's Manual. *MSAccess & VBasic*. Fish Culture Section, B.C. Min. of Environment, Lands & Parks. March 1996. 10p.

Volpe, J.P. *Fish Transfer Database*, Ver. 2.0. and User's Manual. *MSAccess & VBasic*. Fish Culture Section, Fisheries Branch B.C. Min. of Environment, Lands & Parks. March 1996. 22p.

Volpe, J.P. 1994. A molecular genetic examination of the polymorphic Arctic charr, *Salvelinus alpinus*, of Thingvallavatn, Iceland. M.Sc. Thesis. University of Guelph, Guelph, Ontario.

Danzmann, R.G., M.J. Joyce and J.P. Volpe. 1991. Mitochondrial DNA variability in brook charr (*Salvelinus fontinalis*) populations sampled from the Lake Huron drainage: Management and conservation implications. Ontario Ministry of Natural Resources Technical Report.

### **INVITED LECTURES & ADDRESSES (Invited & Fully Sponsored)**

**2016** Aquaculture Innovation Workshop (Keynote) - Roanoke Virginia Aug 21

**2015** Slow Food Canada AGM Montreal March 22-26

**2014** Terra Madre, Turin Italy. The Challenge of Slow Seafood Oct 23-27

**2013** Yale University School of Forestry and Environmental Studies. Feb 20-22

**2012** McGuinness Institute Wellington, NZ. Aquaculture and Global Protein., Dec 23.

The Atlantic Salmon Federation. Land-Based Closed-Containment Conference.

Keynote Speaker and Panelist October 10-11. Saint John, NB

Seattle WA. Aquaculture Innovation Workshop Keynote Speaker and Panelist May

15 -16. Supported by Tides Canada Foundation.

U of Tasmania. Managing Marine Farming: have we achieved best practice?

Keynote Speaker March 8 Hobart, Tasmania, Australia

**2011** Seafood Summit. Salmon is Just the Tip of the Iceberg—Using New Science

Tools to Assess and Shift the Current Trajectory of Marine Aquaculture. Invited

speaker and panelist. Jan 31-Feb 2 Vancouver BC

**2010** Seafood Summit. The Global Aquaculture Performance Index. Invited speaker and

panelist. Jan 22-25 Paris, France

Chile (multiple locations) Leader of exotic (farm) salmon expedition through

Chilean Patagonia rivers. Sponsored by and in collaboration with Oceania.

Public presentations and one-on-one meetings with federal fisheries

minister and government decision makers (Santiago). May 30-June 6.

WWF International Salmon Aquaculture Dialogue. Speaker and respondent.

November 13-19 Bergen, Norway

Columbia University. Respondent – Ecological Performance Index. Board of

Directors Meeting. Dec 17-19 New York City

**2009** Annual meeting of the American Association for the Advancement of Science

(AAAS). Aquaculture impacts, standards and sustainability. Feb 12-16

Chicago IL

- Seafood Summit. USA 2009 The Global Aquaculture Performance Index. Invited speaker and panelist San Diego, CA Jan 22-25
- 2008** Seafood Summit.. “The Global Aquaculture Performance Index”. Invited speaker. Barcelona, Spain January 27-30
- 2007** University of Las Lagos. Genetic impacts of escaped farm salmon. Invited speaker Valapariso, Chile Dec 17-20
- Simon Fraser University The challenge of seafood sustainability. Center for Dialogue. Vancouver, Oct. 11.
- Oregon State University-Department of Fisheries and Wildlife Science Friction: Commercial salmon aquaculture in British Columbia. Eugene, Oregon Oct 10
- SlowFish. Slow Food International Conference. The myth of efficiency and the future of seafood. *Invited speaker & panelist* Genova, Italy May 4-7
- University of Las Lagos. Potential impacts of exotic aquaculture escaped salmon *Invited speaker* Puerto Montt, Chile Jan 13-17
- 2006** Stanford University. Transcending Borders: Pacific salmon and interdisciplinary approaches to fisheries conservation. Palo Alto, CA,. *Invited speaker* Feb 1-2 2006
- Integrating aquaculture and ecological sciences for sustainable offshore aquaculture.. Florence, Italy May 10-13
- 2004** International Seafood Summit. Chicago, IL Oct 26-28. *Invited Speaker*
- Stanford University. International Sustainability Days October 13-16. *Invited Speaker* Palo Alto, CA
- University of Victoria. Annual Meeting of the Society for Ecological Restoration Plenary Address. Victoria, BC August 24-26.
- Culinary Institute of America - Annual Joint Meeting of the Association of the Study of Food and Society and the Agriculture, Food and Human Values Society. *Invited Speaker* Hyde Park, NY June 10-13.
- 4<sup>th</sup> World Fisheries Congress - Forum on the Sustainable Seafood Movement Invited speaker and Forum presenter, May 3-6. Vancouver, BC
- 2003** U. of Victoria, School of Environmental Studies *Recruitment lecture* Victoria, BC Oct 8.
- Pacific States Marine Fisheries Commission Portland, Invited speaker. Oregon. November 17-19.
- Canadian Assoc. of Geographers Annual Meeting, Invited speaker. Victoria, BC May 30.
- WWF Canada - Public Forum on Aquaculture, Invited speaker. Prince Rupert, BC May 3.
- UC Davis Biological Invasions and Biocultural Diversity Symposium. Invited speaker Davis, CA April 24-27
- UBC, Centre for Applied Conservation Research - Salmon Conservation and Aquaculture; *A Public Forum*. Invited speaker Vancouver, BC March 25
- 2002** North-West Salmon Summit. Invited speaker. Bellingham, WA Oct 18.
- US Aquatic Nuisance Species Task Force AGM. Invited speaker October 17 Olympia, WA
- First Nations Aquaculture Summit. Tsleil-Waututh Nation Cultural Centre, Invited speaker. Vancouver, BC Sept. 24-26.
- Simon Fraser University - Center for Dialogue. Invited speaker. Vancouver, BC Oct. 11.
- Stanford University Invited speaker Palo Alto, CA September 17
- American Society of Limnology and Oceanography Annual Meeting. Invited speaker. Victoria, BC June 10-14.



American Society of Ichthyologists and Herpetologists Annual Meeting. Invited speaker.  
Kansas City, MO - July 3-8.

U.S. Forest Service. Invited speaker. Juneau, AK April 2-4.

Simon Fraser University-Biological Sciences Department. Burnaby, BC March 22

Simon Fraser University - *Speaking of Science Lecture Series*. Harbour Centre Campus  
Vancouver, BC March 21.

**2001** Canadian Museum of Nature - National Workshop on Invasive Alien Species. Invited  
Panelist. Ottawa, Ont Nov 5-7.

Prince Rupert Aquaculture Forum. Invited panelist. Prince Rupert, BC Oct 19-20.

Pacific States Marine Fisheries Commission. Portland Oregon. Sept 17 (cancelled – 9/11)

University of Alberta-Biology Department *Recruitment lecture* Edmonton, AB Feb 1.

**2000** US Fish and Wildlife Atlantic Salmon Identification Workshop. Workshop Coordinator &  
Leader Lacey, WA June 19.

Seattle Central Community College. Invited speaker. Seattle, WA May 4.

Vancouver Aquarium-*Hot Topics Lecture Series*. Vancouver, BC March 29.

Simon Fraser University - Speaking for the Salmon International Workshop. Invited  
speaker. March 1-3. Burnaby, BC

## CONTRIBUTED ACADEMIC / SCHOLARLY ORAL PRESENTATIONS

(Students underlined; presenter in bold)

**Stewart, F.E.C.**, E.J.B. McIntire, R. Winder, J.P. Volpe, and J.T. Fisher. 2019. Managing wildlife in a  
complicated world; applying lessons learnt to boreal caribou. The Wildlife Society BC,  
Kelowna, BC

**Gorgopa, S.M.**, J.P. Volpe. 2018. "Can Sport SCUBA Divers Provide Reliable Data for Rockfish  
Conservation?". Salish Sea Ecosystem Conference, Seattle, WA,

**Gillian Chow-Fraser**, Nicole Heim, John Paczowski, John P. Volpe, Jason T. Fisher. 2018. Indirect  
effects of anthropogenic features on competitive pressures between intra-guild  
carnivores North American Congress of Conservation Biology, Toronto ON.

**Darlington, S.**, F.E.C. Stewart, J.T. Fisher, A.C. Burton, J. Volpe. 2018. Deer on the move: white-  
tailed deer anti-predator movement response to industrial features in northeastern  
Alberta. Canadian Society for Ecology & Evolution, University of Guelph ON

**Stewart, F.E.C.**, J.P. Volpe, G.A. Hood, D. Vujnovic, and J.T. Fisher. 2018. Protected areas  
are only as valuable as the working landscapes they conserve. Canadian Society for Ecology  
and Evolution, Guelph, Ontario. July 17-21 2018. **\*\*Awarded best presentation (3rd place)**

**Gillian Chow-Fraser**, Laura Finnegan, Barry Nobert, John P. Volpe, Jason T. Fisher. 2018. No room  
for mistakes for caribou mothers on multi-predator and disturbed landscapes Canadian  
Society of Ecology and Evolution, Guelph ON.

**Gorgopa, S.M.**, J.P. Volpe. 2018. "Can Sport SCUBA Divers Provide Reliable Data for Rockfish  
Conservation?". Pacific Ecology and Evolution Conference, Bamfield, B.C., Canada.

**Gillian Chow-Fraser**, Nicole Heim, John Paczowski, John P. Volpe, Jason T. Fisher. 2018. Friend or  
foe: fine-scale spatiotemporal co-occurrence of wolverine (*Gulo gulo*) and coyote (*Canis  
latrans*) on disturbed and undisturbed landscapes Alberta Chapter of the Wildlife Society  
(ACTWS), Lethbridge AB. **\*\*Awarded Best Student Presentation (3rd place)**

**Gorgopa, S.M.**, J.P. Volpe. 2017. "Evaluating the reliability of citizen science SCUBA surveys  
for long term monitoring of marine life". Pacific Ecology and Evolution Conference,  
Bamfield, B.C., Canada.

- Bulger, D. S.**, J.P. Volpe, and J.T. Fisher. 2018. Evaluating British Columbia's artificial reefs in a conservation context: Potential abundance and diversity trade-offs for groundfish Canadian Society for Ecology and Evolution, Guelph, ON.
- Gillian Chow-Fraser**, J.T. Fisher, and J. Volpe. 2017. Influence of predation risk and human footprint on boreal and central mountain caribou neonate mortality Pacific Ecology and Evolution Conference (PEEC), Bamfield BC.
- Darlington, S.**, J.T. Fisher, J. Volpe. 2017. Anthropogenic disturbance affects energetic trade-offs with predation risk in white-tailed deer (*Odocoileus virginianus*). Canadian Society for Ecology & Evolution, Victoria BC.
- Stewart, F.E.C.**, A.C. Burton, M. Pybus, D. Vujnovic, G. Hood, J.P. Volpe, and J.T. Fisher. 2017. Biological interpretation, accuracy, and precision of species occurrence data. The Alberta Chapter of the Wildlife Society, Lac LaBiche, Alberta.
- Gillian Chow-Fraser**, J.T. Fisher, and J. Volpe. 2017. Mother knows best: the influence of female caribou habitat selection on calf mortality during calving season. Canadian Society for Ecology and Evolution, Victoria BC.
- Burgar, J., **F.E.C. Stewart**, A.C. Burton, J.P. Volpe, and J.T. Fisher. 2017. A comparison of multiple spatial capture-recapture models for estimating mammal densities in a changing landscape. 12th International Mammal Congress, Perth, Australia, July 9-16th, 2017.
- Stewart, F.E.C.**, J.P. Volpe, J.S. Taylor, J. Bowman, P.J. Thomas, M.J. Pybus, and J.T. Fisher. 2017. Distinguishing reintroduction from recolonization with genetic testing. The Wildlife Society, Albuquerque, NM. **\*\*Awarded best student presentation**
- Burke, Lily**, Jason T. Fisher, John P. Volpe. 2017. Fish on film in the temperate deep: an underwater method comparison. Canadian Society for Ecology and Evolution Conference, May 7 - 11, 2017, Victoria, British Columbia, Canada.
- Gillian Chow-Fraser**, J.T. Fisher, and J. Volpe. 2017. Mother knows best: the influence of female caribou habitat selection on calf mortality during calving season Alberta Chapter of the Wildlife Society, Lac La Biche AB. **\*\*Awarded Best Student Presentation (3<sup>rd</sup> place)**
- Darlington, S.**, J.T. Fisher, J. Volpe. 2017. Predator avoidance and seasonal resource selection by white-tailed deer (*Odocoileus virginianus*) in Northern Alberta. Alberta Chapter of the Wildlife Society, Lac La Biche AB.
- Burgar, J.\*, **F.E.C. Stewart**, A.C. Burton, J.P. Volpe, and J.T. Fisher. 2017. A comparison of multiple spatial capture-recapture models for estimating carnivore densities using field data. Canadian Society of Ecology and Evolution, Victoria, BC, May 7-11 2017.
- Stewart, F.E.C.**, A.C. Burton, J.P. Volpe, and J.T. Fisher. 2017. What does species occurrence data really mean when individuals are mobile? Pacific Ecology and Evolution Conference, Bamfield, British Columbia. **\*\*Awarded best presentation**
- Stewart, F.E.C.**, A.C. Burton, M. Pybus, D. Vujnovic, G. Hood, J.P. Volpe, and J.T. Fisher. 2017. Species occurrence data tells us where animals are, but more importantly where they move. The Canadian Society for Ecology and Evolution, Victoria, British Columbia.
- Darlington, S.**, J.T. Fisher, J. Volpe. 2018. Modelling predator avoidance by white-tailed deer in the Alberta boreal forest. Pacific Ecology & Evolution Conference, Bamfield BC.
- Fisher, T.J.**, **N.A. Heim**, **F.E.C. Stewart**, **C. James**, **S. Frey**, and J.P. Volpe. 2016. Three's a crowd: anthropogenic footprint affects species-species interactions. The Wildlife Society, Raleigh, North Carolina.
- Stewart, F.E.C.**, **N. Heim**, A.P. Clevenger, J. Paczkowski, J.P. Volpe, and J.T. Fisher. 2015. Wolverine behaviour varies with anthropogenic footprint: Implications for conservation and inferences about declines. The Canadian Society for Ecology and Evolution, Saskatoon, Saskatchewan.

- Stewart, F.E.C., N. Heim,** A.P. Clevenger, J. Paczkowski, J.P. Volpe, and J.T. Fisher. 2016. Using behaviour as a metric of landscape change. WeaselFest, Gavin Lake, British Columbia.
- Stewart, F.E.C.,** J. S. Taylor, J.P. Volpe, and J.T. Fisher. 2016. Questioning fisher re-introduction success in central Alberta; genetic evidence for provincial scale connectivity. WeaselFest, Gavin Lake, British Columbia.
- Stewart, F.E.C.,** M. Pybus, D. Vujnovic, G. Hood, J.P. Volpe, and J.T. Fisher. 2016. Genetic evidence for fisher recolonization success in central Alberta: implications for provincial-scale connectivity. The Alberta Chapter of the Wildlife Society, Drumheller, Alberta.
- Stewart, F.E.C., N. Heim,** A.P. Clevenger, J. Paczkowski, J.P. Volpe, and J.T. Fisher. 2015. Landscape-scale behavioral response by wolverines (*Gulo gulo*) to landscape development: evidence for a human-driven landscape of fear? The Alberta Chapter of the Wildlife Society. Edmonton, Alberta.
- Stewart, F.E.C.,** N. Heim, A.P. Clevenger, J. Paczkowski, J.P. Volpe, and J.T. Fisher. 2015. Wolverine behavior varies with anthropogenic footprint: Implications for conservation and inferences about declines. The Canadian Society for Ecology and Evolution, Saskatoon, Saskatchewan.
- Stewart, F.E.C., N. Heim,** A.P. Clevenger, J. Paczkowski, J.P. Volpe, and J.T. Fisher. 2015. Wolverine landscapes-of-fear; assessing landscape-scale human impacts on wolverine behaviour in the Eastern Rockies. Pacific Ecology and Evolution Conference. Bamfield, British Columbia.
- Beck, M.,** J.P. Volpe and L.M. Horborg. 2013. Victoria Natural History Society Feb 12th
- Beck, M.,** J.P. Volpe and L.M. Horborg. 2013. Pacific Ecology and Evolution March 1-3 Bamfield Marine Science Center
- Gee, J.,** J.P. Volpe. 2013. Aquaculture Information Management System: Website User-Based Interfaces. Food and Agriculture Organization of the UN / Department of Fisheries, Thailand. Terminal Workshop. Bangkok, Thailand. January 14
- Beck, M.,** J.P. Volpe and L.M. Horborg. 2013. WA-BC American Fisheries Society Chapter AGM March 25-28 Lake Chelan, Washington
- Beck, M.,** J.P. Volpe and L.M. Horborg. 2013. International Conference on Aquatic Invasive Species (ICAIS) Niagara Falls, Ontario April 21-25
- Gee, J.** and J.P. Volpe. 2013. Policy and Regulatory Mandates and Objectives for an Aquaculture Information System. Food and Agriculture Organization of the UN / Department of Fisheries, Thailand. Terminal Workshop. Bangkok, Thailand. January 14.
- Beck, M.,** J.P. Volpe and L.M. Horborg. 2013. Canadian Aquatic Invasive Species Network II AGM May 2-3 Kananaskis, Alberta
- Gee, J.** and J.P. Volpe 2013. Policy and Regulatory Mandates and Objectives for an Aquaculture Information System. Food and Agriculture Organization of the UN / Department of Fisheries, Thailand. Terminal Workshop. National Training Course on Aquaculture Information Management System in Thailand. Bangkok, Thailand. January 10.
- Beck, M.,** J.P. Volpe and L.M. Horborg. 2013. Canadian Society for Ecology and Evolution. Kelowna, BC May 12-15
- Beck, M.,** J.P. Volpe and L.M. Horborg. 2013. International Conference of Marine Bioinvasions, August 20-22 University of British Columbia, Vancouver BC
- Volpe, J.P.** The Beef or the Fish? 2012. How Putting Aquaculture in the Context of Global Protein Production Can Inform/Impact our Seafood Choices. 10<sup>th</sup> Seafood Summit. Hong Kong. Sept. 6-8.
- Beck, M.,** J.P. Volpe and L.M. Horborg. 2012. Reconciling Large-scale Model Predictions with Small-scale – Impacts and interactions of the invasive smallmouth bass (*Micropterus*

- dolomieu*) with native species in British Columbian lakes. International Conference on Aquatic Invasive Species April 21-25, Niagara Falls ON
- Beck, M.**, J.P. Volpe and L.M. Horborg. 2012. Small mouths lead to big problems? Non-native Smallmouth bass (*Micropterus dolomieu*) in British Columbian lakes. American Fisheries Society Meeting May 15-17, Victoria, BC.
- Mucciarelli, V.M.**, J.P. Volpe, B. Starzomski, and D. Biffard. 2011. Investigating the drivers of biodiversity on an artificial reef in a subtidal marine ecosystem. International Marine Conservation Congress May 14th-18th, Victoria BC
- Volpe, J.P.**, 2011. Fat fish and sacred cows: The first global mariculture performance assessment forces a re-evaluation of fish farming's role in sustainable seafood. International Marine Conservation Congress May 14th-18th, Victoria BC
- Fisher, J.T.**, C. Pasztor, A. Wilson, J.P. Volpe and B. Anholt. 2011. Conservation of re-introduced sea otters in British Columbia: Habitat selection on a coastline of fear. International Marine Conservation Congress May 14th-18th, Victoria BC
- Park, A.** and Volpe, J.P. 2011. Out of the pan into the fire: Unforeseen consequences of a chemical therapeutant used on salmon farms. International Marine Conservation Congress May 14th-18th, Victoria BC
- Park, A** and Volpe, J.P. 2011. Biological effects of SLICE on non-target spot prawn (*Pandalus platyceros*). Commercial Prawn Fishermen Annual General Meeting March 30th Courtenay BC
- Park, A.** and Volpe, J. 2010. Detection of emamectin benzoate (SLICE) in non-target spot prawn (*Pandalus platyceros*) and determination of biological effects. Pacific Ecology and Evolution Conference March 5-7th, Bamfield BC.
- Park, A.** 2009. The effect of emamectin benzoate (SLICETM) application by salmon farms on non-target spot prawn (*Pandalus platyceros*). Fisheries and Marine Ecosystems Conference April 17-19th, White Rock BC.
- Park, A.** 2009. Environmental impacts of salmon aquaculture prophylactic chemical application. Pacific Ecology and Evolution Conference February 20-22, Bamfield BC.
- Fisher, J.T.**, B. Anholt, and J.P. Volpe. 2009. Patterns of multi-scale habitat selection by mammalian carnivores in a subalpine landscape. 3rd Annual Canadian Society for Ecology and Evolution Conference, Halifax, N.S.
- Volpe, J.P.** 2009. Sustainability and the myth of sustainability. NetSci 2009 June 29-July 3, Venice, Italy.
- Peet, C.**, J.P. Volpe, A. Mazumder, and A. Morton. 2007. The impact of salmon farming on the host parasite relationship between sea lice and juvenile salmon: implications for the health of wild salmon populations. Society for Conservation Biology 21st Annual Meeting July 1-5, Port Elizabeth, South Africa.
- Peet, C.**, J.P. Volpe, A. Mazumder, and A. Morton. 2007. The impact of salmon farming on the host parasite relationship between sea lice and juvenile salmon: implications for the health of wild salmon populations. American Fisheries Society Annual Meeting, San Francisco, Sept. 2-6.
- Volpe, J.P.** 2006. Swimming Against the Sustainability Current: The Growing Problem with Seafood. Annual meeting of the Agriculture, Food and Human Values Society. Boston, MA. June 7-11.
- Saini, J.S.** and J.P. Volpe. 2006. Food Writing in Developing Sustainable Gastronomy. Annual meeting of the Agriculture, Food and Human Values Society. Boston, MA. June 7-11.
- Peet, C.**, J.P. Volpe, and A. Mazumder. 2005. Interactions between the salmon louse and juvenile salmonids in British Columbia. 21st Annual Pink and Chum Salmon Workshop.

Ketchikan, AK Feb 23-26.

- Peet, C.**, J.P. Volpe, and A. Mazumder. 2005. Possible impact of salmon farming on wild salmon populations. Society for Conservation Biology Annual Meeting. Brasilia, Brazil. July 15-19.
- Sumaila, U.R.**, J.P. Volpe and Y. Liu. 2005. Ecological and economic analysis of sablefish aquaculture in British Columbia. 2005 Forum of the North American Association of Fisheries Economists. University of British Columbia, Vancouver. May 25-27.
- Popowich, R.C.**, E.B. Taylor, J.D. Stelfox, and J.P. Volpe. 2005. Bull Trout x Brook Trout Hybrids: Using Genetics to Validate Morphological and Meristic Identification Techniques. Canadian Conference for Fisheries Research. Windsor, ON January 7.
- Popowich R.C.** and J.P. Volpe. 2004. Troubled waters: Cumulative anthropogenic activity and a declining bull trout population in the Elbow River watershed. Forest Land Fish Conference II. Edmonton, AB April 26-28. (\*awarded "Best Student Paper").
- Rodtka, M.C.** and J.P. Volpe. 2004. Effects of stream temperature on interspecific competition between juvenile brook and bull trout. Forest Land Fish Conference II. Edmonton, AB April 26-28.
- Williamson, C.** and J.P. Volpe. 2004. Variable stable isotope ( $\delta^{15}\text{N}$ ) enrichment across tissues in juvenile Atlantic salmon (*Salmo salar*) attributable to nutritional stress. Annual Meeting of the North American Benthological Society. Vancouver, BC June 6-10.
- Volpe, J.P.** and M. Skladany. Going beyond the box: Social, political and cultural dimensions of setting organic aquaculture standards. 2nd International Organic Aquaculture Workshop. Minneapolis, MN, July 15-17 2003.
- Popowich, R.C.** and J.P. Volpe. 2003. Competitive Interactions: Determining How Bull Trout/Brook Trout Hybrids Affect Native Albertan Bull Trout Populations. Alberta Conservation Association Partners In Conservation Conference. Edmonton, Alberta. January 24.
- Volpe, J.P.** Atlantic salmon (*Salmo salar*) in British Columbia and the biology of invasion: The sequel. Second International Conference on Marine Bioinvasions. New Orleans, Louisiana. April 9-11 2001.
- Volpe, J.P.**, B.R. Anholt and B.W. Glickman. 2000. Ecology of aquaculture escaped Atlantic salmon (*Salmo salar*) in British Columbia, Canada. Annual Meeting of the Society for Conservation Biology. Missoula, Montana. June 8-12.
- Volpe, J.P.**, B.R. Anholt and B.W. Glickman. 1999. Invasion ecology of aquaculture escapee Atlantic salmon (*Salmo salar*) on the Pacific coast. Aquaculture Canada 1999. Victoria, British Columbia. October 26-29.
- Volpe, J.P.**, B.R. Anholt and B.W. Glickman. 1999. Atlantic salmon (*Salmo salar*) in British Columbia and the biology of invasion. Annual Meeting of the International Northwest Chapter of the American Fisheries Society. Richmond, British Columbia. February 15-17.
- Volpe, J.P.**, B.R. Anholt and B.W. Glickman. 1999. Atlantic salmon (*Salmo salar*) in British Columbia and the biology of invasion. First National Conference on Marine Bioinvasions. Massachusetts Institute of Technology, Cambridge, Massachusetts. January 24-27.
- Volpe, J.P.** and S.M. Pollard. 1998. Describing units for conservation: when molecular genetic tools only tell half the story. Gene Conservation: Identification and Management of Genetic Diversity: A special session of the VII International Congress of Ecology. Florence, Italy. July 19-25, 1998.
- Volpe, J.P.** and B.W. Glickman. 1998. Coastal British Columbia: A case study of the colonization biology of Atlantic salmon (*Salmo salar*). 1998 Annual General Meeting of the American Fisheries Society, North Pacific International Chapter. Union, Washington. March 18-20 1998.

- Volpe, J.P.** and B.W. Glickman. 1997. It may be the "King of Fish" but can British Columbia afford Atlantic salmon (*Salmo salar*)? Annual Meeting of the Society for Conservation Biology. University of Victoria. June 6-9 1997.
- Volpe, J.P.**, L. Bernatchez and M.M. Ferguson. 1993. Molecular genetic variation in four sympatric morphs of Icelandic Arctic charr (*Salvelinus alpinus alpinus*). Canadian Conference on Freshwater Fisheries Research. Trent University. January 3-5 1993.
- Volpe, J.P.**, L. Bernatchez and M.M. Ferguson. 1993. Genetic variation found in the Arctic charr (*Salvelinus alpinus*) population of Thingvallavatn, Iceland using direct nucleotide sequencing. 32nd Annual Meeting of the Canadian Society of Zoologists. University of Guelph.
- Volpe, J.P.**, L. Bernatchez and M.M. Ferguson. 1993. Genetic variation found in the Arctic charr (*Salvelinus alpinus*) population of Thingvallavatn, Iceland using direct nucleotide sequencing. International Symposium for the Genetics of Subarctic Fish and Shellfish. May 17-19 1993, Juneau, Alaska.

### **CONTRIBUTED SCHOLARLY POSTER PRESENTATIONS** (students underlined)

- Bulger, D. S. and J.P. Volpe. 2017. Evaluating British Columbia's artificial reefs in a conservation context: Potential abundance and diversity trade-offs for groundfish. Pacific Ecology and Evolution Conference, Bamfield, BC.
- Bulger, D. S. and J.P. Volpe. 2017. Evaluating British Columbia's Artificial Reefs in a conservation context: Potential abundance and diversity trade-offs for groundfish. Canadian Society for Ecology and Evolution conference (May, 2017), Victoria, BC.
- Bulger, D. S., J. P. Volpe, and J. T. Fisher. 2017. Evaluating British Columbia's Artificial Reefs in a conservation context: Potential abundance and diversity trade-offs for groundfish. North American Congress for Conservation Biology Toronto, ON.
- Park, A. and Volpe, J.P. 2010. Detection of emamectin benzoate (SLICE) in non-target spot prawn (*Pandalus platyceros*) and determination of biological effects (Poster). International Sea Lice Conference May 9-12th, Victoria BC
- Hahn, R.L., B.R. Anholt, A.C. Hill, A. Mazumder and J.P. Volpe. 2006. Salmon farm wastes as a potential source of nutrients to adjacent intertidal communities in Clayoquot Sound, British Columbia. American Society of Limnology and Oceanography. Victoria, BC. June 4-9.
- Krkosek, M., M.A. Lewis, and J.P. Volpe. 2004. Modeling parasite transmission from farm to wild salmon. MITACS 5th Annual Conference, Dalhousie University, Halifax, NS. June 9-12.
- Rodtka, M. and J.P. Volpe. 2004. Effects of stream temperature on interspecific competition between juvenile brook and bull trout. 4<sup>th</sup> World Fisheries Congress. Vancouver, BC May 3-6.
- Peet, C.R., A. Mazumder, and J.P. Volpe. 2004. Interactions between the salmon louse (*L. salmonis*) and juvenile salmonids in British Columbia. 4<sup>th</sup> World Fisheries Congress. Vancouver, BC May 3-6.
- Edwards, A., R. Nordin, J.P. Volpe, C. Peet, M. Kainz, A. Mazumder. 2003. Trophic position and mercury in sport and commercial fish from coastal Vancouver Island. Annual meeting of the Collaborative Mercury Research Network. St. Andrews, NB Nov 21-23.
- Krkosek, M., M. Lewis, and J.P. Volpe 2003. The mathematical epidemiology of sea lice (*L. salmonis*) in salmon farms and the interaction between aquaculture and wild Pacific salmon. 6th International Conference on Sea Lice. St Andrews, New Brunswick, July 1-4.

Williamson, C., M. Rodtka and J.P. Volpe. 2003. Invasion of brook trout into a small Alberta stream: Insights into trophic shifts and effects on native bull trout. Alberta Conservation Association Partners In Conservation Conference. Edmonton, Alberta. January 24-25.

Rodtka, M. and J.P. Volpe. 2003. Effects of stream temperature on juvenile interspecific competition between exotic brook trout and native bull trout. Alberta Conservation Association Partners In Conservation Conference. Edmonton, AB January 24-25.

Hahn, L. B.R. Anholt, A. Mazumder, D. Duffus, B.W. Glickman and J.P. Volpe. 2001. Effects of salmon farm effluent on adjacent intertidal and *Zostera marina* communities. Pacific Ecology Conference, Bamfield, BC February 16-18.

Volpe, J.P., M.M. Ferguson. 1995. De-coupling of the genotype and phenotype in Arctic charr (*Salvelinus alpinus alpinus*) of Thingvallavatn, Iceland. Fisheries Society of the British Isles International Symposium - 1995. Plymouth, U.K. July 10-13 1995

## UVIC TEACHING

(year course semester # students)

<b>2000</b>	ES400C	Fall	39	<b>2013</b>	ES240	Spring	100
<b>2004</b>	ES335B	Summer	17		ES446	Spring	37
<b>2005</b>	ES200	Spring	71		ES240	Fall	110
	ES200	Summer	50		ES503	Fall	12
	ES341	Fall	69	<b>2014</b>	ES240	Spring	97
<b>2006</b>	ES446	Spring	35		ES482A	Spring	9
	ES482A	Spring	13		ES503	Spring	12
	ES200	Fall	146		ES240	Fall	106
<b>2007</b>	ES200	Spring	143	<b>2015</b>	ES240	Spring	90
	ES446	Spring	50		ES503	Spring	12
	ES240	Fall	115		ES240	Fall	98
	ES500	Fall	9		ES503	Fall	12
<b>2008</b>	ES200	Spring	150	<b>2016</b>	ES240	Spring	98
	ES341	Summer	18		ES481	Spring	33
	ES240	Fall	150		ES240	Fall	99
	ES500	Fall	12		ES446	Fall	24
<b>2009</b>	ES341	Spring	60	<b>2017</b>	ES240	Spring	98
	ES240	Fall	150		ES481	Spring	25
	ES500	Fall	10		ES240	Fall	127
<b>2010</b>	ES446	Spring	30		ES482B	Fall	16
	ES501	Spring	10	<b>2018</b>	ES240	Spring	125
	ES500	Fall	10		ES382	Spring	46
<b>2011</b>	ES501	Spring	10		ES240	Fall	109
	ES240	Fall	120		ES431	Fall	35
	ES482A	Fall	15				

ES 200 Introduction to Environmental Studies  
 ES 240 Ecological Processes  
 ES 341 Ecological Restoration  
 ES 446 Sustainable Fisheries  
 ES 482A Complex Systems

ES 482B Invasion Biology  
 ES 431 (481 <2019) History, Science & Culture of Wine  
 ES 500 Environmental Theories, Methods and Skills I  
 ES 501 Environmental Theories, Methods and Skills II  
 ES 503 / 603 Environmental Studies Graduate Colloquium

## Student Supervision

(co-supervisor) \* NSERC Graduate Scholar

†AB Ingenuity Graduate Scholar

**Mitch Macfarlane**

MSc

in program – vineyard management / terroir

**Andrew Watts**

MSc

in program – determinants of wine grape ripeness

<b>Alexandra Francis</b>	MSc (Fisher)	in program – moose conservation
<b>Joanna Burger</b>	PDF (Fisher&Burton)	2018 – conservation & predator-prey dynamics
<b>Katie Baillie-David</b>	MSc (Fisher)	in program – mesocarnivore conservation
<b>Stefania Gorgopa</b>	MSc	2018
<b>Siobhan Darlington*</b>	MSc(Fisher)	2018 - ungulate coexistence models
<b>Gillian Fraser*</b>	MSc(Fisher)	2018 - predator macroecology
<b>Desiree Bulger</b>	MSc	in program - efficacy of artificial reefs
<b>Sandra Frey*</b>	MSc (Fisher)	2018 - temporal structuring of predator interactions
<b>Gray Daniels</b>	MSc	in program - molecular tunneling & metabolic ecology
<b>Lily Burke</b>	MSc	2018 Staff Scientist, DFO
<b>Frances Stewart*</b>	PhD (Fisher)	2018 PDF Pacific Forestry Centre
<b>Nikki Heim*</b>	MSc (Fisher)	2015 Parks Canada Biologist Technician
<b>Hannah Roessler</b>	MA (Stephenson)	2013 Instructor - Pacific Rim College
<b>Martina Beck</b>	MSc	2013 Biologist, BC Min FLNRO
<b>Valerie Ethier*</b>	MSc	2013 Independent Aquaculture Contractor
<b>Valerie Mucciarelli*</b>	MSc	2014 Teacher, Victoria BC
<b>Ashley Park*</b>	MSc	2013 Biologist - Archipelago Inc
<b>Dane Stabel</b>	MSc	2011 Dive Tourism - Owner
<b>Helen Ford</b>	MSc	2011 Biologist-Parks Can
<b>Hillary Harrup Archibald*</b>	MSc (Schaefer)	2010 PhD Student- U of Western Australia
<b>Amy Deveau*</b>	MSc	2011 Independent GIS Analyst
<b>Jennifer Gee</b>	MSc	2010 UN FAO Analyst
<b>Lise Townsend *</b>	MSc (Schaefer)	2010 Consulting Biologist
<b>Jason Fisher†</b>	PhD (Anholt)	2011 Sr. Research Scientist - Alberta Innovates
<b>Martin Krkošek*</b>	PhD (Lewis)	2009 Assistant Professor - U of Toronto
<b>Corey Peet</b>	MSc. (Mazumder)	2007 Project Manager - Aquaculture Blueyou AG
<b>Latif Saddique</b>	M. Mar. Pol. (Dalhousie)	2006 PhD Candidate - Australia
<b>Ryan Popowich</b>	MSc	2005 Biologist – Golder Associates
<b>Mike Rodtka*</b>	MSc	2005 Biologist – Alberta Conservation Association
<b>Jenn Kelly*</b>	MSc	2005 Sr. Lab Instructor - UBC
<b>Chris Williamson†</b>	MSc	2005 Teacher – Bella Bella, BC
<b>Preston McEachern</b>	PhD	2004 Biologist – Province of Alberta
<b>Theron Miller</b>	PhD	2004 Biologist – State of Utah
<b>Mike Sullivan†</b>	PhD	2003 Biologist – Province of Alberta

### Graduate Student Supervisory Committee Member

Cameron Freshwater	Juanes	UVic Biol	PhD	2017
Kira Hoffman	Starzomski	ENVI	PhD	2018
Nancy Shackelford	Starzomski	ENVI	PhD	2017
Lara Puetz	Tunncliffe	UVic Biol	MSc	2014
Jason Straka	Starzomski	ENVI	MSc	2012
Katharine Corriveau	Starzomski	ENVI	MSc	2012
Brooke Campbell	Pauly	UBC Fisheries	MSc	2011
Thomas Child	Turner	ENVI	MSc	2011
Alison Edwards	Mazumder	UVic Biol	MSc	2011
Brian Kopach	Duffus	UVic Geog	PhD	transfer-UCalgary
Leanne Harris	Perlman	UVic Biol	MSc	2008
Severn Suzuki-Cullis	Turner	ENVI	MSc	2007



Yajie Liu	Sumaila	UBC Fisheries	PhD	2007
Jennifer Chow	Riemchen	UVic Biol	MSc	2007
Louise Hahn	Anholt	UVic Biol	MSc	2005
Heidi Swanson	Schindler	Alberta Biol	MSc	2004
Erin Kelly	St. Louis	Alberta Biol	MSc	2004
Stephanie Neufeld	Proctor	Alberta Biol	MSc	2004

### Graduate Defence External Examiner

Maximilien Genest	UVic SEOS	MSc	2018
Andy Szabo	UVic Geog	MSc	2004
Christine Weldrick	UVic Geog	MSc	2011

### Chair of Graduate Oral Defence

Nancy Wilde	UVic Psych	PhD	2005
Paul Teel	UVic Phil	MA	2006
Alvin Bergen	UVic M. Eng	PhD	2008
Nishad Khanna	UVic Educ	MSc	2011
Colette Starheim	UVic Geog	MSc	2011
Karyn Suchy	UVic Biol	PhD	2014
Francis Harrison	UVic Comp Sci	MSc	2015

### Undergraduate Research Supervision

<b>2018</b>	Sheldon Vos	Undergraduate Honours Project (GEOG)
<b>2017</b>	Sheldon Vos	Undergraduate Honours Project (GEOG)
<b>2013</b>	Francine Beaujot	Undergraduate Honours Project (EOS)
<b>2011</b>	Elisabeth Sargeant	Undergraduate Honours Project (BIOL)
<b>2010</b>	Megan Adams	Undergraduate Honours Project (BIOL)
	Jenna Stoner	NSERC USRA Scholar
<b>2009</b>	Megan Adams	NSERC USRA Scholar
	Erin Webb	MITACS Co-Op Summer Scholar
<b>2008</b>	Melanie Page	NSERC USRA Scholar
<b>2002</b>	Jenn Kelly	Undergraduate Honours Project (Alberta)
	Jenn Kelly	NSERC USRA Scholar (Alberta)
<b>2007</b>	Ashley Park	NSERC USRA Scholar
	Brock Ramshaw	NSERC USRA Scholar
<b>2006</b>	Stephanie Peacock	NSERC USRA Scholar
	Helen Ford	NSERC USRA Scholar
<b>2005</b>	Pamela Tudge	Environmental Studies Final Project
<b>2002</b>	Jean-Francis Buoffard	Undergraduate Honours Project (Alberta)
	Jean-Francis Buoffard	NSERC USRA Scholar (Alberta)

### RESEARCH FUNDING (*unsuccessful proposals italicized and noted from 2014 onwards*)

<b>2019</b>	€3,137,000	Erasmus Mundus – Erasmus+ (PI-Philippe Mongondry, ESA France-pending)
<b>2018</b>	27,900	France-Canada Research Fund (pending)
	82,500	BC Investment Agriculture Foundation (awarded)
	38,855	Canadian Habitat Stewardship Program (awarded - Galiano Conservancy)

	90,000	Six student MITACS awards @\$15K (all awarded)
2017	47,762	Canadian Habitat Stewardship Program (awarded - Galiano Conservancy)
	45,000	Three MSc student MITACS awards @\$15K (all awarded)
	24,000	Cumulative effects of metal on freshwater invertebrates (BC Gov) (awarded)
2016	468,100	NSERC (5 yr Discovery) ( <i>not funded</i> )
	30,000	Two MSc student MITACS awards @\$15K (all awarded)
2015	10,000	Vancouver Foundation ( <i>not funded</i> )
	25,016	Seaworld Busch Gardens Conservation Fund ( <i>not funded</i> )
	63,358	Mitsubishi Corporation ( <i>not funded</i> )
	71,933	Canadian Habitat Stewardship Program (awarded - Galiano Conservancy)
	24,000	PICS Graduate Student Fellowship ( <i>not funded</i> )
	1,522	British Columbia Jobs Grant ( <i>not funded</i> )
	10,600	PADI Foundation ( <i>not funded</i> )
	16,450	Canadian Wildlife Federation (awarded)
2014	24,000	PICS Graduate Student Fellowship ( <i>not funded</i> )
	7,000	UVic Internal Research Grant (awarded)
	100,000	MEOPAR (awarded PI Natalie Ban)
	15,210	Intervet (Schering-Plough)
2012	5,000	David Suzuki Foundation
	5,600	Fishwise (awarded)
	49,000	Monterey Bay Aquarium Seafood Watch Program
	10,000	Sea Choice
2011	187,000	Pew Charitable Trusts
	15,000	MITACS (awarded)
	66,200	Canadian Aquatic Invasive Species Network (CAISN-NSERC)
2010	287,000	Pew Charitable Trusts
	30,000	MITACS Accelerate
2009	5,000	Watershed Watch Society
	80,000	MITACS
2008	204,000	Lenfest Ocean Program
	10,000	Pew Charitable Trusts
	10,000	Canadian Sablefish Association
	45,000	Pacific Salmon Forum
2007	86,500	NSERC Discovery (over 5 years)
2006	47,100	Invasive Alien Species Partnership Program (PI Purnima Govindarajulu)
	27,000	Pacific Salmon Forum
	35,000	National Geographic Society
	£180,000	Darwin Foundation (Co-PI)
2005	18,000	U of Victoria Start-up
2004	17,000	Canadian Sablefish Association
	30,000	Alberta Conservation Association
2003	5,000	Canadian Wildlife Federation
	102,158	Canadian Foundation for Innovation (CFI) - New Opportunities
	102,158	AB Science & Research Investments Program
2002	28,000	Alberta Conservation Association
	993,551	Canadian Foundation for Innovation (CFI) – Innovation Fund (ACCRU) (Co-PI)
	90,000	NSERC Discovery (over 5 years)
2001	156,000	NSERC/ SHRC – Major Collaborative Research Initiative (Coasts Under Stress)
	80,000	University of Alberta Start-up

## PROFESIONAL SERVICE

### Testimony

Washington Supreme Court - Wild Fish Conservancy vs. US EPA 2018  
 New Zealand Federal Board of Inquiry in Salmon Aquaculture November 2012  
 BC Superior Court - Mainstream Canada v Staniford Dec 2011 Vancouver BC  
 BC Legislative Committee on Sustainable Aquaculture. Oct 18 2006. Victoria, BC  
 Alaska State Senate. May 24 2004. Juneau, AK.  
 Leggatt Inquiry Into BC Aquaculture. October 10 2001. Vancouver, BC.  
 Canadian Federal Senate Fisheries Committee. May 9 2001. Vancouver, BC.  
 Canadian Federal Senate Fisheries Committee. March 30 2000. Duncan, BC  
 Canadian Fed. Parliamentary Comm. on Fisheries and Oceans. Feb.16 2000. Victoria, BC.  
 Washington State Senate. Sept. 16 1999. Olympia, WA

### Nonacademic Appointments

2017-18	IFOAM Global Aquaculture Standards Team
2014-18	Rockfish Conservation Foundation – Scientific Advisor
2002-05; 2014-18	Seafood Watch Program of Monterey Bay Aquarium - Scientific Advisory Board
2001-04	Raincoast Conservation Society - Scientific Advisory Board
2004-present	Slow Food International - Canadian Ark of Taste Review Board

### Administrative Appointments and Duties

#### External

2015	External Program Reviewer - U Waterloo Environ & Resource Studies
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#### UVic

2015	Dean's Advisory Committee
2014	UVic Faculty Pension Fund Trustee ( <i>unsuccessful in election</i> )
2008-09	UVic Senate – Soc Sci Representative
2008-11; 2014-2018	UVic Marine Safety Committee
2007-11	Graduate Advisor – School of Environmental Studies
2005-11	Restoration of Natural Systems Program Advisory Board
2005	SS&M (DTB) Building Committee
2005	Social Science Internal Grant Review Committee

### School of Environmental Studies

2018	Search Committee – CRC ENVI Political Ecology (Failed Search)
2017-present	ENVI Library representative
2015-18	ENVI Graduate Committee
2015	Search Committee - Ethnoecology tenure track position (Matthews)
2013	Director - School of Environmental Studies (6 month term)
2010	Search Committee - ENVI Director (Stephenson)
2008-09	Search Committee - Ian McTaggart-Cowan Chair (Starzomski)
2008	Search Committee - Ethnoecology Limited Term (Schrieber)
2008	Search Committee - Ethnoecology tenure track position (Lantz)
2007	Search Committee - Sr. Lab Instructor (Beckwith)
2005	Search Committee - LEEF Chair – <i>Cultures and Ecosystems at Risk</i>
2005	Search Committee - RNS Director (Schaefer)

2007-11  
2005-present

ENVI Graduate Student Advisor  
ENVI ARPT Committee