

Curriculum Vitae
Stephanie J. Green

Assistant Professor · Department of Biological Sciences
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www.greenlab.ca

EDUCATION

Ph.D.	Simon Fraser University Department of Biological Sciences Advisor: Dr. Isabelle Côté Cumulative GPA: 4.30 <i>Natural Sciences and Engineering Council of Canada (NSERC)</i> <i>Alexander Graham Bell Canada Graduate Fellowship</i>	Burnaby, Canada	2013
B.Sc.	University of British Columbia Major: Ecology and Environmental Biology Cumulative GPA: 89% (equiv. 4.00) <i>Science Scholar Honours and Dean's List Honours</i>	Vancouver, Canada	2006
Associate Sc.	University of the Fraser Valley Cumulative GPA: 3.84 <i>Top Biology Student 1st Year and 2nd Year, Dean's List</i>	Abbotsford, Canada	2004

PROFESSIONAL EXPERIENCE

Assistant Professor, Department of Biological Sciences University of Alberta Edmonton, Canada <i>Offered the Canada Research Chair Tier II in Marine Global Change Ecology and Conservation</i>	2018- present
Banting Postdoctoral Fellow and Early Career Science Fellow Center for Ocean Solutions Stanford University Monterey, CA <i>Initiated international research on the role of biotic interactions in species redistribution under climate change. Ranked 2nd out of 223 applicants internationally; funding rate <10%</i>	2016- 2018
David H. Smith Conservation Research Fellow Department of Integrative Biology Oregon State University Corvallis, OR <i>Led research on functional eradication as a method for ecologically-based targets for invasive species control in collaboration with University of Hawaii, NOAA, US National Park Service, and University of California Davis.</i>	2013- 2016
Teaching Faculty Semester at Sea Program University of Virginia Charlottesville, NC <i>Developed and taught two undergraduate courses: Marine Biology (BIOL-1559); Society and the Sea (STS-2500)</i>	2016

Affiliate Scientist **2009- present**
Reef Environmental Education Foundation
 Key Largo, Florida and Santa Barbara, CA
Develop and implement research programs and management plans for the conservation of coastal marine ecosystems in partnership with resource managers and citizen scientists in the US and Caribbean region.

Conservation Scientist **2015- 2016**
Blue Ventures Conservation
 Belize City, Belize
Work with government, fishers, NGOs, and local businesses to evaluate the social and ecological consequences of intervention strategies for mitigating the effects of invasive lionfish on coastal marine resource conservation in the Mesoamerican Reef system. Partners: Colorado State University, NOAA, UNEP

Science Policy Researcher **2014- 2015**
Tides Canada
 Vancouver, Canada
Conducted interviews with 32 national and international experts in evidence-based decision making representing all levels of governance and sectors. Worked with a Steering Committee to synthesize key findings and develop illustrative examples of the consistent and transparent use of rigorously-derived information and evidence in public policy.

Research Assistant **2006**
Pacific Salmon Population Ecology and Conservation Lab
 University of British Columbia
Researched the effects of recreational fisheries on the stress physiology and migration potential of adult sockeye salmon.

Research Officer **2005**
Pacific Agri-Foods Fruit Breeding Program
 Ministry of Agriculture Canada
Coordinated and maintained field and laboratory fruit cultivar selection experiments

Program Coordinator **2004**
Hands on Science
 University of the Fraser Valley
Developed the curriculum for and implemented an NSERC-funded science education program for 5th grade public school students in three school districts.

RESEARCH GRANTS

In review

C Buendia-Fores, F Wyatt, M. Bhatia, **SJ Green**, R Vinebrook, W. Donahue. *Development of a comprehensive geospatial tool for assessing watershed integrity and aquatic ecosystem health in the North Saskatchewan River basin.* \$750,000
 Water Innovation Program, Alberta Innovates.
 April 2019-March 2022

SM Rogers and **SJ Green**. *Underwater camera and CTD instruments to study the* \$45,755

ecology and evolution of fishes.
 NSERC Research Tools and Instruments Grants Program.
 September 2019

Awarded

SJ Green, E Hazen, M Jacox, S Bograd, LB Crowder. *Developing traits-based tools to inform ecosystem-based fisheries management under climate change.* \$401,020
 Lenfest Ocean Program of the Pew Charitable Trust Foundation
 September 2018- 2022

SJ Green. *Community reassembly in changing seascapes: patterns, processes, and consequences.* \$165,000
 Natural Sciences and Engineering Council of Canada (NSERC) Discovery Grant
 September 2018-2023

SJ Green, E Hazen, LB Crowder. *Accounting for biotic interactions in forecasts of global species distribution change: A framework based on the role of traits in mediating predator-prey interactions.* \$140,000
 NSERC Banting-Vanier Secretariat
 June 2016 – 2018

J Chapman, **SJ Green.** *Evaluating trade-offs between targets for sustainable harvest and ecological impact suppression an invasive fish predator.* \$65,000
 MAR Fund
 June 2015-December 2016

SJ Green and JL Akins. *Evaluating the long-term effect and management of invasive lionfish on Florida marine ecosystems.* \$85,000
 NOAA Coral Reef Conservation Grant #NA14NOS4820084
 July 2014- December 2016

SJ Green, JA Morris & LR Creswell. *Gulf and Caribbean Fisheries Institute Invasive Lionfish Science Symposium.* \$19,500
 Florida SeaGrant
 August 2015- August 2016

M Johnston, **SJ Green**, JL Akins. *Targeted control of invasive lionfish in the Flower Garden Banks National Marine Sanctuary.* \$32,000
 NOAA National Marine Sanctuary Program Hollings Grant
 August 2014- Dec 2015

SJ Green, JL Akins, C Semmens. *Setting and evaluating ecological targets for invasive lionfish control.* \$90,000
 NOAA Coral Reef Conservation Grant # NA12NOS4820069
 Oct 2012-Sept 2014

JL Akins, **SJ Green**, B Castillo. *Developing practical removal techniques* \$74,300

for lionfish removal. Florida SeaGrant Award # NA10OAR4170079
August 2012- March 2014

JL Akins, SJ Green . <i>Invasive lionfish control in Biscayne National Park and the Florida Keys National Marine Sanctuary</i> . Mote Protect Our Reefs Grant # POR-2011-30 September 2012- September 2014	\$26,900
SJ Green , JL Akins. <i>Engaging citizen scientists in invasive species control through removal derbies</i> . Elizabeth Ordway Dunn Foundation Grant. March 2012-June 2013	\$20,000
JL Akins, SJ Green , IM Côté. <i>Invasive lionfish on coral reefs of Puerto Rico and the US Virgin Islands: promoting local awareness and engagement in monitoring and control action</i> . NOAA Coral Reef Conservation Grant # NA09NMF4630110 August 2009- March 2011	\$53,500
SJ Green . <i>Assessing the impact of invasive lionfish (<i>Pterois volitans/miles</i>) on Caribbean coral reef fish communities</i> . NSERC Michael Smith Foreign Study Grant Jan- Sept 2010	\$6,500
SJ Green . <i>Invasive species education and outreach messaging</i> . Project AWARE Conservation Research Grant Sept 2008- Sept 2009	\$500

AWARDS and HONOURS

NSERC Banting Postdoctoral Fellowship (\$140,000)	2016-2018
David H. Smith Conservation Research Fellowship (\$140,000)	2013-2015
SFU President's PhD Research Award (\$6,500)	2012
SFU Graduate Fellowship PhD level (\$6,500)	2012
NSERC Alexander Graham Bell Canada Graduate Scholarship PhD level (\$70,000)	2009-2011
SFU Graduate Fellowship PhD level (\$6,500)	2011
IDEAS Symposium Best Oral Presentation (non-monetary)	2011
NSERC Alexander Graham Bell Canada Graduate Scholarship MSc level (\$35,000)	2008-2010
IDEAS Symposium Runner-up Best Oral Presentation (non-monetary)	2010
Gulf and Caribbean Fisheries Institute (GCFI) Conference Travel Award (\$750)	2009
Pacific Institute for Conservation and Environment Travel Award (\$600)	2009
Simon Fraser University Graduate International Scholarship (\$6,250)	2008
11 th International Coral Reef Symposium (ICRS) Field Trip Award (\$2,000)	2008
Simon Fraser University Special Graduate Entrance Scholarship (\$5,000)	2008
Jamie Smith Memorial Award for Best Presentation 2007 (non-monetary)	2007
Millennium Foundation Excellence Scholarship (\$16,000)	2002-2006
NSERC Undergraduate Research Award (\$4,500)	2006
University of British Columbia Science Scholar Honour (non-monetary)	2006
William M. Mercer Memorial Scholarship in Arts and Sciences (\$2,000)	2005
University of British Columbia Entrance Scholarship (\$2,500)	2004

University of the Fraser Valley Top Student 2 nd year Biology (\$100)	2004
University of the Fraser Valley Top Student 1 st year Biology (\$100)	2003
University of the Fraser Valley Entrance Scholarship (\$5,000)	2002

PUBLICATIONS

Google Scholar metrics as of Jan 2019: h-index: 19; i10-index: 24

Peer reviewed (underline indicates student or mentee author)

33. **Green SJ**, E Dilley, CE Benkwitt, A Davis, KE Ingeman, JL Tuttle, TL Kindinger, MA Hixon. (*In Review*). Trait-mediated foraging drives patterns of selective predation by native and invasive fishes. *Ecology*. MS# ECY18-1303.
31. Malpica-Cruz, L, **SJ Green**, IM Côté. (*In Review*) Temporal changes in the trophic signature of an invasive marine predator. *Hydrobiologia*. MS# HYDR-D-18-00844.
32. Oestrich, WK, TH Frawley, EJ Mansfield, KM Green, **SJ Green**, J Naggea, JC Selgrath, SS Swanson, J Urteaga, TD White, LB Crowder. (*In Review*) The impact of environmental change on small-scale fishing communities: Moving beyond adaptive capacity to community response. *Edited chapter in Ecosystems and Societies under Climate Change*.
30. Wedding, L, E Finkbeiner, **SJ Green**, M Cameron, AN Doerr, et al. (*In Review*) Advancing marine social-ecological systems research through data science. *Frontiers in Ecology and the Environment*. MS# Fee18-0360.
29. **Green, SJ**, K Grorud-Colvert, H Mannix. (2018) Uniting science and stories: perspectives on the value of storytelling for communicating science. *FACETS*. 3(1): 164-173.
28. **Green, SJ**, E Underwood, JL Akins. (2017) Mobilizing volunteers to achieve ecologically-relevant invasive species control. *Conservation Letters*. 10(6): 726-735.
27. Smith, NS, IM Côté, L Martinez-Estevez, E Hind-Ozan, A Quiros, N Johnson, **SJ Green**, L Cornick, D Shiffman, L Malpica-Cruz, A Gleason Besch, N Shiel-Rolle. (2017) Diversity and inclusion in conservation: A proposal for the Marine Diversity Network. *Frontiers in Marine Science*. 4(234): 1-7.
26. Smith, NS, **SJ Green**, JL Akins, S Miller, IM Côté. (2017) Density-dependent colonization and natural disturbance limit the effectiveness of invasive lionfish culling efforts. *Biological Invasions*. 19(8): 2385-2399.
25. **Green, SJ**, K Demes, M Arbeider, WJ Palen, AK Salomon, TD Sisk, M Webster, ME Ryan (2017) Oil sands and the marine environment: current knowledge and future challenges. *Frontiers in Ecology and the Environment*. Doi:10.1002/fee.1446.
24. Hixon, M, **SJ Green**, MA Albins, JL Akins, JA Morris Jr. (2016) Lionfish: a catastrophic marine invasion. *Marine Ecology Progress Series*. 558: 161-165.
23. Hind, EJ, SM Alexander, **SJ Green**, JP Kritzer, M Sweet, AE Johnson, F Pina-Mamargos, NS Smith, A Peterson. (2015) Fostering international collaboration for marine science in small island states. *Frontiers in Marine Science*. 2(86): 1-7
22. **Green, SJ**, NK Dulvy, IM Côté. (2015) Response to Valderrama and Fields: Effect of temperature in models of fish biomass production. *Letter to the Editor, Ecological Applications*. 25(7): 2048-2050.

21. **Green, SJ**, JB Armstrong, MT Bogan, ES Darling, SM Kross, CM Rockman, AR Smyth, D Verissimo. (2015). Conservation needs diverse values, approaches, and practitioners. *Conservation Letters*. 8(6): 385-387.
20. Rochman, CM, JB Armstrong*, MT Bogan*, ES Darling*, **SJ Green***, SM Kross*, AR Smyth*, D Verissimo* (2015). Scientific Evidence Supports a Ban on Microbeads. *Environmental Science and Technology*. 49: 10759-10761. *Authors contributed equally; listed alphabetically
19. **Green, SJ** and IM Côté. (2014) Trait-based diet selection: prey morphology and behaviour determine vulnerability to predation in reef fish communities. *Journal of Animal Ecology*. 83: 1451-1460. *Chosen for the cover of the November 2014 journal issue
18. **Green, SJ**, NK Dulvy, ALM Brooks, AB Cooper, JL Akins, S Miller, IM Côté. (2014) Linking removal targets to the ecological effects of invaders: a predictive model and field test. *Ecological Applications*. 13-0979.
17. Akins, JL, JA Morris Jr., **SJ Green**. (2014) Novel *in situ* tagging technique for fishes demonstrated on invasive lionfish. *Ecology and Evolution*. 4(19): 3768-3777.
16. Côté, IM, ES Darling, L Malpica, N Smith, **SJ Green**, J Curtis-Quick, C Layman. (2014) What doesn't kill you makes you wary? Effects of repeated culling on the behaviour of an invasive predator. *PLOS One*. e94248.
15. Valdivia, A, JF Bruno, CE Cox, S Hackerott, **SJ Green**. (2014) Re-examining the relationship between invasive lionfish and native grouper in the Caribbean. *PeerJ*. 2: e348.
14. **Green, SJ**, N Tamburello, S Miller, JL Akins, IM Côté (2013) Habitat complexity and fish size affect the detectability of Indo-Pacific lionfish on invaded coral reefs. *Coral Reefs*. 2: 413-421.
13. Favaro, B, D Braun and **Earth2Ocean Research Derby Working Group*** (2013) The 'Research Derby': A pressure cooker for creative and collaborative science. *Ideas in Ecology and Evolution*. 6: 40-46. * I led a section of the working group that wrote this paper during the 2013 Earth2Ocean Research Derby
12. Hackerott, S, A Valdivia, **SJ Green**, IM Côté, CE Cox, L Akins, CA Layman, WF Precht, JF Bruno (2013) Native predators do not influence invasion success of Pacific lionfish on Caribbean reefs. *PLOS One*. e68259.
11. Côté, IM, **SJ Green**, MA Hixon (2013) Predatory fish invaders: Insights from Indo-Pacific lionfish in the Western Atlantic and Caribbean. *Biological Conservation*. <http://dx.doi.org/10.1016/j.biocon.2013.04.014>
10. Côté, IM, **SJ Green**, JA Morris Jr., JL Akins, D Steinke (2013) Diet richness of an invasive marine predator revealed by DNA barcoding. *Marine Ecology Progress Series*. 472: 249-256.
9. **Green, SJ**, JL Akins, A Maljkovic, IM Côté (2012) Invasive lionfish drive Atlantic coral reef fish declines. *PLOS One*. 7(3): e32596.
8. C Phillis*, S O'Regan*, **SJ Green***, J Bruce*, S Anderson, J Linton, E2O Working Group, B Favaro (2012) Multiple pathways to conservation success. *Conservation Letters*. 10: 1-9. *Authors contributed equally; listed reverse alphabetically.

7. **Green, SJ** (2012) Monitoring: An essential action. In JA Morris (Ed) Best Practices for Invasive Lionfish Control and Management in the Wider Caribbean. Gulf and Caribbean Fisheries Institute and UNEP publication. Fort Pierce, USA.
6. Morris, JA and **SJ Green** (2012) Lionfish research: A guide to current findings and future questions for applied science. In JA Morris (Ed) Best Practices for Invasive Lionfish Control and Management in the Wider Caribbean. Gulf and Caribbean Fisheries Institute and UNEP publication. Fort Pierce, USA.
5. **Green, SJ**, JL Akins, JA Morris Jr. (2012) Lionfish dissection: Techniques and Applications. NOAA Memorandum. NOS NCCOS 139: 1-30.
4. Côté, IM and **SJ Green** (2012) Potential effects of climate change on a marine invasion: the importance of current context. Current Zoology. 58: 1-8.
3. **Green, SJ**, JL Akins, IM Côté (2011) Daily patterns of foraging behaviour and predation by invasive lionfish on Bahamian coral reefs. Marine Ecology Progress Series. 433: 159-167.
2. Darling, ES, **SJ Green**, JK O’Leary, IM Côté (2010) Indo-Pacific lionfish are larger and more abundant on invaded reefs: A comparison of Kenyan and Bahamian lionfish populations. Biological Invasions. 9: 2045-2051.
1. **Green, SJ** and IM Côté (2009) Record densities of Indo-Pacific lionfish (*Pterois volitans*) on Bahamian coral reefs. Coral Reefs. 28: 107.

White papers, technical publications, and published conference proceedings

- Ingeman, KE, MA Albins, CE Benkwitt, **SJ Green**, TL Kindinger, JL Tuttle, MA Hixon. (2017) Resolving differences in observed impacts of invasive lionfish and clarifying advice to managers. PeerJ Preprints. (5); e3455v1.
- JC Ray and **SJ Green** (2016) Submission to the expert panel for the review of environmental assessment processes. Canadian Environmental Assessment Agency. 18pp.
- C Stalling, M Albins, **SJ Green**, L Akins, RS Appeldoorn, CH Tuohy. (2016). Controlling invasives: sea Grant Research Provides Insights into Lionfish Removal Efforts. Florida Sea Grant, SGEF. (237) 1-2.
- Green SJ**, B Castillo, K Reale-Munroe, IF Lundgren, CG Pollock and JL Akins (2015) Predicting and testing ecological thresholds for invasive lionfish control in Buck Island Reef National Monument. US National Park Service Report #BUIS-2011-SCI-0007. 1-24.
- Green SJ** and JL Akins (2015) The efficacy of long-term management for invasive lionfish on coral reefs. NOAA Coral Reef Conservation Program Report. 1-22.
- Bogdanoff, AK., JL Akins, JA Morris Jr. and **GCFI Lionfish Workgroup*** (2014) Invasive lionfish in the marketplace: challenges and opportunities. Proceedings of the 65th Gulf and Caribbean Fisheries Institute Conference. 1-8. * *I led a section of the working group that wrote this paper at GCFI 2013*
- Nardelli, A, D Kersetter, JL Akins and **SJ Green** (2014) Measuring the socio-economic characteristics of lionfish fishing derby events. Proceedings of the 67th Gulf and Caribbean Fisheries Institute Conference. 1-3.

- Curtis-Quick, J, E Underwood, **SJ Green**, JL Akins, A Harborne and IM Côté (2014) Interactions Between The Caribbean Spiny Lobster, *Panulirus Argus*, And Invasive Lionfish, *Pterois Volitans*: Who Displaces Who? Proceedings of the 67th Gulf and Caribbean Fisheries Institute Conference. 1-3.
- Green SJ** and JL Akins (2014) Fishing derbies as an effective tool for community engagement and population control of invasive lionfish. Proceedings of the 67th Gulf and Caribbean Fisheries Institute Conference. 1-3.
- Bogdanoff AK, L Akins, D Buddo, FR Gomez, B Glazer, **SJ Green**, L Creswell, JA Morris Jr. (2014) The invasive lionfish webportal. (2014). Proceedings of the 67th Gulf and Caribbean Fisheries Institute Conference. 1-5.
- Green SJ** and IM Côté (2012) Assessing and mitigating the Impact of Invasive Indo-Pacific Lionfish on Invaded Caribbean reefs. Proceedings of the 65rd Gulf and Caribbean Fisheries Institute Conference. 1-4.
- Green SJ** and IM Côté (2011) Modelling the effect of size-selective removal on the management of invasive Indo-Pacific lionfish populations. Proceedings of the 64th Gulf and Caribbean Fisheries Institute Conference.
- Morris, JA Jr., JL Akins, A Barse, D Cerino, DW Freshwater, **SJ Green**, R Muñoz, C Paris, and PE Whitfield (2009) Biology and ecology of the invasive lionfishes, *Pterois miles* and *Pterois volitans*. Proceedings of the 62nd Gulf and Caribbean Fisheries Institute Conference. 1-6.
- Green SJ** and IM Côté (2008) The potential impacts of invasive Indo-Pacific lionfish on Caribbean coral reef fish communities. Proceedings of the 11th International Coral Reef Symposium.

LEADERSHIP

Workshop leader

International Marine Conservation Congress (IMCC)

Co-led with H. Mannix (COMPASS) and K. Grorud-Colvert (Oregon State University): "*Tales from the Sea: Communicating science and conservation through storytelling*"

IMCC 5, Kuching, Malaysia

2018

IMCC 4, St John's, Canada

2016

IMCC 3, Glasgow, Scotland

2014

Organizing and Implementation Committee

2014-2016

Science Integrity Project (www.scienceintegrity.ca)

Co-led the design of a project bringing together an inter-disciplinary network of 75 Canadian scientists, policy makers, and indigenous leaders, including partners from Tides Canada and the International Institute for Sustainable Development, to develop shared understanding of the current state of evidence-based public policy, and guiding principles and practices for measurable improvements in the flow of information into policy processes.

Working group member

2014-2016

Oil sands and the environment: current context and future challenges

Marine section leader of an interdisciplinary group of North American scientists, economists, and policy analysts who are to synthesize, generate and promote the use of scientific evidence on environmental risks and realities of oil sands development for policy and resource management decision making.

- Symposium leader**
International Congress for Conservation Biology, Montpellier, France 2015
Co-led with Sara Kross (UC Davis) and David H. Smith Conservation Research Fellows:
“Risk and reward: Learning from past failures and mistakes to achieve conservation success”
- Workshop leader**
International Marine Conservation Congress, Glasgow, Scotland 2014
Co-led with E. Goldman (COMPASS) and K. Grorud-Colvert (PISCO): “Communicating science and conservation through storytelling”
- Organizing Committee Chair and Special Issue Editor,** 2014-2015
Gulf and Caribbean Fisheries Institute Lionfish Science Symposium and Publication
This symposium brought together experts in the fields of invasive lionfish biology, ecology, and management to an international symposium in 2015 and produce a special peer-reviewed issue of the journal Marine Ecology Progress Series (MEPS).
- Founder and Co-organizer** 2012- 2015
Coastal Connection, Vancouver, Canada
Coastal Connection brings together professionals from universities, NGOs, industry and government to share information and build connections for marine and freshwater research and conservation projects.
- Co-founder and Scientific Advisor** 2010-2014
Lionfish Research and Education Program (LREP), Cape Eleuthera Institute, Bahamas
This program conducts community outreach, research, and education for elementary through university-aged students on the effects and management of invasive lionfish.
- Organizing Committee** 2010- present
Regional Invasive Lionfish Working Group
Sponsored jointly by the International Coral Reef Initiative, NOAA and Gulf and Caribbean Fisheries Institute
- Member, Board of Directors** 2012-2014
Tropical Conservation Consortium (TCC)
TCC is a registered US Non-Governmental Organization with its main office residing in San Francisco, CA and field offices in Panama and Belize. TCC's mission is to preserve natural ecosystems and their sustainable use through community-based education, research and science.
- Focus Group Coordinator** 2011
International Marine Conservation Congress, Victoria, Canada
Session title: Identifying knowledge gaps and coordinating research to inform the management of invasive lionfish in the Western Atlantic
- Associate Chairperson** 2010-2011
Biology Graduate Caucus, Simon Fraser University
- Conference Organizer** 2009-2011
Inter-Departmental Ecology of Aquatic Systems (IDEAS), Burnaby, Canada
- Session Facilitator** 2009
62nd Gulf and Caribbean Fisheries Institute Conference, Cumana, Venezuela
Session: Managing invasive lionfish in the tropical western Atlantic

Conference Organizer Pacific Ecology and Evolution Conference (PEEC), Bamfield, Canada	2007-2008
Lead Judge, Regional Science Fair Program, Vancouver, BC Biology/Technology Division	2010-2012
Sustainability Ambassador Sustainability Office, University of British Columbia	2004-2006

TEACHING EXPERIENCE and TRAINING

Teaching and curriculum development

Instructor, Marine Population Ecology and Dynamics **Fall 2018**
Bamfield Marine Science Centre

Designed and taught this course for 24 senior undergraduate science majors during Bamfield's fall semester. My students explored emerging issues and techniques in marine ecology and population dynamics through primary literature case studies and field-based research within the intertidal marine environment on the Pacific west coast of Vancouver Island, British Columbia, Canada.

Guest Instructor, Ocean Policy Course **Summer 2017**
Center for Ocean Solutions
Stanford University

Designed and led full-day activities within this two-week intensive course on marine protected areas negotiation and stakeholder engagement using the Florida Keys National Marine Sanctuary and Biscayne National Park as case studies

Instructor, Marine Biology (BIOL 1559) **Spring 2016**
Department of Biological Sciences, Semester at Sea Study Abroad Program
University of Virginia

Designed and taught this course for 61 undergraduate science majors during UVA's Semester at Sea Global Voyage program. Students explored the physical and chemical processes in marine environments, ocean biodiversity, ecological interactions, and conservation challenges in ocean systems through case studies from 13 countries.

Instructor, Societies and the Sea (STS 2500) **Spring 2016**
School of Science, Technology & Society, Semester at Sea Study Abroad Program
University of Virginia

Designed and taught this course for 32 undergraduate non-major students during UVA's Semester at Sea Global Voyage program. Students investigated the reciprocal relationships between people and ocean environments, drawing on information and methods from biology, oceanography, history, anthropology, and economics through issue-based analysis of key environmental challenges faced by coastal populations.

Instructor, Nunavut Arctic College **Spring 2012**
Iqaluit, Canada
Marine Biology, Environmental Technology Program (100 level course)

Instructor, Institute for Tropical Ecology and Conservation **Winter 2012**
Bocas del Toro, Panama
Coral Reef Ecology (Undergraduate field research course)

Section Instructor, Simon Fraser University **Winter 2008**

Burnaby, BC
Population Dynamics (Bisc 407)

Workshop Leader, Reef Environmental Education Foundation (REEF) **2009- present**
I develop and deliver programs in monitoring, research, and conservation planning for coastal government and conservation agencies across the Atlantic and Caribbean regions. To date, I have worked with 20 countries including the US National Park Service (Florida, USA), Bahamas Department of Marine Resources (Nassau, Bahamas), Department of Environment (Cayman Islands), STINAPA (Bonaire), CONANP (Mexico), and Department of Fisheries (Belize).

Relevant training

New Faculty Instructional Series **August 2018**
Center for Teaching and Learning, University of Alberta
Edmonton, AB

Group Facilitation **January 2015**
Dovetail Consulting
Miami, FL

Leadership and Project Management **October 2014**
Madison, WI

Postdoctoral Teaching Seminar **Jan-May 2014**
College of Teaching and Learning, Oregon State University
Corvallis, OR

Science and Media Communication **January 2013-14**
InterMedia Communications Training
Washington, DC

Science Communication **April 2014**
COMPASS
Vancouver, BC

MENTORSHIP

Postdoctoral fellows

Dr. Natasha Hardy, University of Alberta **Feb 2019-present**

Dr, Alexandra Davis, University of Alberta **Feb 2019-present**

Graduate students

PhD Co-Supervisor, Kyle Shanebeck, University of Alberta **Sept 2018-present**

MSc Supervisor, Aneri Garg, University of Alberta **Sept 2018-present**

MSc Supervisor, Natasha Pentyluk, University of Alberta **Jan 2019-present**

MSc Supervisor, Noelle Helder, Univeristy of Alberta **Jan 2019-present**

PhD Committee, Kelsi Furman, Northeastern University **Jan 2019-present**

MSc Co-Supervisor, Elizabeth Smith, University of the Virgin Islands **Sept 2017- present**
Thesis title: "Ecological and Environmental Drivers of Lionfish Movement on Invaded Coral Reefs in the US Virgin Islands"

MSc Committee, Adam Nardelli, Nova Southeastern University **2013-2016**
*Capstone title: "Density-dependant movement in non-native lionfish (*Pterois volitans* and *P. miles*) in the Florida Keys National Marine Sanctuary"*
*Completed in May 2016

MSc Committee, Jesse Secord, Nova Southeastern University **2014-2016**
Thesis title: "Prey size-selectivity among foraging strategies of Atlantic reef fish predators"
*Graduated in January 2016

MSc Co-advisor, Zoe Sanchez, Hunter College, CUNY **2013-2014**
Thesis title: "Fishing derbies as an effective tool to control invasive lionfish "
*Graduated in May 2014

MSc Co-advisor, Bailey Clear, Northeastern University Three Seas Program **2010-2011**
Thesis title: "Microhabitat use by invasive and native predators on Bahamian coral reefs"
*Graduated in Dec 2011

Thesis examination

MSc, Department of Ocean Sciences, Memorial University **July 2018**
*Luara Zargarpour, "Underwater video as a tool to examine American lobster (*Homarus americanus*) trapping behaviour and interactions with invasive European green crab (*Carcinus maenas*)"*

MSc, Department of Biological Sciences, University of Victoria **Dec 2018**
Jennifer Magel, "Effects of heat stree and local human disturbance on the structure of coral reef ecosystems at multiple scales of biological organization"

Internships

Scientific advisor, Marine Conservation Internship Program, REEF **2011-present**
Each semester I work with four undergraduate interns to develop research projects and skill sets in ecology and conservation related to South Florida coral reef systems

Undergraduate students

Anne Lim, University of Alberta **Sept 2018-present**
Riley Ellis, University of Alberta **Jan 2019-present**
Christina Styliani Savvides, Stanford University **2017-2018**
Eric Dille, Oregon State University **2014-2016**
Margot Webster, Simon Fraser University **2014-2016**
Michael Arbeider, Simon Fraser University **2014-2016**

Ashley Coke, Oregon State University	2014-2015
Elizabeth Underwood, Cape Eleuthera Institute	2012-2015
Skylar Miller, Cape Eleuthera Institute	2012-2014

University programs

Graduate Orientation Mentor, Department of Biological Sciences, SFU	2008-2012
Undergraduate Orientation Mentor, University of British Columbia	2005-2006
Undergraduate Orientation Mentor, University of the Fraser Valley	2003-2004

SCIENTIFIC SERVICE

Guest editor: Marine Ecology Progress Series

Manuscript reviewer for: Current Biology, Ecology, Journal of Ecology, Functional Ecology, Journal of Animal Ecology, Conservation Letters, Coral Reefs, PLOS One, Marine Ecology Progress Series, Oecologia, Environmental Biology of Fishes, Journal of Fish Biology, Aquatic Biology, Transactions of the American Fisheries Society, Ecosphere, Bulletin of Marine Science, Biological Invasions, PeerJ

Grant reviewer for: NOAA SeaGrant, NOAA National Marine Fisheries Service, Earth Watch Program, Society for Conservation Biology, National Geographic Society

Professional societies:

Ecological Society of America (ESA)
Society for Conservation Biology (SCB)
Gulf and Caribbean Fisheries Institute (GCFI)

PRESENTATIONS

Invited Seminars and Plenaries

- 2018 Diversity in Conservation Lecture Series, Warner College, Colorado State University, USA
- 2018 Conservation Biology Guest Lecture, MacEwan University, Edmonton, Canada
- 2018 NOAA Coastal Ocean Seminar Series, Silver Springs, USA (webinar)
- 2018 Hopkins Marine Science Station Ocean Science Lecture Series, Stanford University, USA
- 2017 Buck Island National Monument National Parks Lecture Series, Saint Croix, USVI
- 2017 International Congress for Conservation Biology, Cartagena, Colombia
- 2017 Department of Ecology and Evolutionary Biology, University of California Santa Cruz, USA
- 2017 Department of Biological Sciences, Stanford University, Monterey, USA
- 2017 MARINE Symposium Science Storytelling Training Seminar, Moss Landing, USA
- 2017 Department of Ecology and Evolutionary Biology, University of Toronto, Toronto, Canada
- 2017 Reef Environmental Education Foundation Webinar Series
- 2016 Department of Biological Sciences Seminar Series, Sacramento State University
- 2016 National Lionfish Exploitation Strategy Workshop Plenary, Belize City, Belize
- 2016 Reef Conservation in South Florida Summit Plenary Talk, Key Lago, USA
- 2016 Department of Biological Sciences, University of Alberta, Canada
- 2016 Department of Biological Sciences, Sacramento State University, USA
- 2015 Irving K. Barber School of Arts and Sciences, University of British Columbia, Canada
- 2015 Gulf and Caribbean Fisheries Institute Annual General Meeting, Panama
- 2015 Symposium speaker, International Congress on Conservation Biology, France
- 2015 School of Aquatic and Fisheries Sciences, University of Washington, USA

- 2015 Plenary speaker, VI-EPSCoR Conference, University of the Virgin Islands, St. Croix, USVI
- 2015 Delicate Balance of Nature Series, Florida Park Service, Key Largo
- 2014 Department of Ecology and Evolutionary Biology, University of Toronto, Canada
- 2014 Northeast Panel, US Aquatic Invasive Species Taskforce, Massachusetts USA
- 2014 "Got Invasives?" Session Plenary, National Wildlife Federation Annual Meeting, Baltimore, MD
- 2014 Oil Sands and the Environment Symposium, North American Congress on Conservation Biology
- 2014 Science in Small Island Nations Symposium, 3rd International Marine Conservation Congress
- 2014 SeaGrant Education Programs Annual Meeting, Ft Pierce, FL
- 2014 National Park Service Guest Lecture, Buck Island National Monument, St. Croix, USVI
- 2014 Faculty of Science Seminar, University of the Virgin Islands, St. Croix, USVI
- 2014 Department of Integrative Biology Seminar, University of South Florida, Tampa, FL
- 2013 Biological Sciences Departmental Seminar, University of Victoria, Victoria, Canada
- 2013 Southeast and Gulf of Mexico Regional Fisheries Management Council, Raleigh, North Carolina
- 2013 Fish and Wildlife Departmental Seminar, Oregon State University, Corvallis, USA
- 2013 Fish and Friends Public Lecture, Reef Environmental Education Foundation, Key Largo, USA
- 2013 Lionfish Expedition Summit, Nova Southeastern University Oceanographic Center, Florida, USA
- 2012 Fish 500 Seminar Series, Fisheries Centre, University of British Columbia
- 2012 'Training the Trainers: Developing Monitoring Plans' Workshop, Cape Eleuthera Institute, Bahamas
- 2012 Conservation Biology (Bisc 402), Simon Fraser University, Burnaby, Canada
- 2012 Introduction to Ecology (Bisc 204) Simon Fraser University, Burnaby, Canada
- 2011 Conservation Biology (Bisc 402), Simon Fraser University, Burnaby, Canada
- 2010 Regional Lionfish Management Workshop, Cancun, Mexico
- 2009 International Marine Bio-Invasions Conference, Portland, USA
- 2009 62nd Gulf and Caribbean Fisheries Institute Meeting, Cumana, Venezuela
- 2009 Plenary Talk: Island School Research Symposium, Cape Eleuthera Institute, Bahamas

Contributed

- 2018 North American Congress on Conservation Biology, Toronto, Canada
- 2018 5th International Marine Conservation Congress, Kuching, Malaysia
- 2017 Canadian Society for Ecology and Evolution Annual Meeting, Victoria, Canada
- 2016 4th International Marine Conservation Congress, St. John's, Canada
- 2014 3rd International Marine Conservation Congress, Glasgow, Scotland
- 2014 66th Gulf and Caribbean Fisheries Institute Annual Meeting, Barbados
- 2013 Western Society of Naturalists Annual Meeting, Ventura, USA
- 2013 Gulf and Caribbean Fisheries Institute Meeting, Corpus Christi, USA
- 2013 International Congress for Conservation Biology, Baltimore, USA
- 2013 Bahamas Natural History Conference, Nassau, Bahamas **Presented by J. Quick*
- 2013 Brazilian Conference of Marine Biology, Brazil **co-author*
- 2013 Bahamas Natural History Conference, Nassau, Bahamas **co-author*
- 2012 Gulf and Caribbean Fisheries Institute Meeting, Cumana, Columbia
- 2012 Ecological Society of America Annual Meeting, Portland, USA
- 2011 International Marine Conservation Congress, Victoria, Canada
- 2011 Annual Ecology and Evolution Conference, Squamish, Canada
- 2010 Plenary Talk: Ecological and Evolutionary Ethology of Fishes Conference, Burnaby, Canada
- 2010 US Coral Reef Task Force Annual Meeting, San Juan, Puerto Rico **co-author*
- 2010 63rd Gulf and Caribbean Fisheries Institute Meeting, San Juan, Puerto Rico
- 2010 Society for Conservation Biology Conference, Edmonton, Canada
- 2010 Inter-department Ecology of Aquatic Species Symposium (IDEAS), Burnaby, Canada
- 2009 62nd Gulf and Caribbean Fisheries Institute Meeting, Cumana, Venezuela

2008 Western Society of Naturalists Conference, Vancouver, Canada
2008 11th International Coral Reef Symposium, Ft. Lauderdale, USA

SELECTED POPULAR MEDIA

Print

Bitumen's impact on ocean life is uncharted water, study finds. **Globe and Mail**. Nov 30, 2017
Bitumen knowledge gaps too great to assess risk of ocean spill: study **Canadian Press**. Nov 30, 2017
Scientists just found 15 ways Alberta's oilsands sector can alter oceans. **National Observer**. Dec 20, 2016
Eight billion microbeads pollute US aquatic habitats daily. **CNN**. Sept 22, 2015
Microbeads pollute aquatic habitats. **The Washington Post**. Sept 18, 2015
A Call to Action Against a Predator Fish with an Import Ban. **The New York Times**. Sept 25, 2014
Invasive species control: Bounty hunters, News Feature, **Nature**. Sept 12, 2014
As Lionfish Invade, Divers Defend Threatened Ecosystems, **Science Magazine**. Feb 7, 2014
War on lionfish shows first promise of success. **Los Angeles Times**. Jan 25, 2014
As Lionfish Invade the Gulf of Mexico, Conservationists Say Eat Up, **Scientific American**, Dec 11, 2013
The lionfish invasion: An unabated siege of the Atlantic, **The Christian Science Monitor**. Oct 21, 2013
Population Increasing in the Caribbean, **Nature World News**. Oct 19, 2013
Lionfish expedition: Down Deep is where the big, scary ones live, **Science Daily**. July 11, 2013
Manned Submersible on the Hunt for Invasive Lionfish, **Reuters**. June 18, 2013
Lionfish Beyond Reach of Divers Worry Researchers, **Associated Press**. July 16, 2013
Lionfish: New explorers of the Caribbean, **The Explorers Journal**. December 2011
Lionfish make a new home: Settle in for the long haul, **Divers Alert Magazine**. July 2009

Television

One Feisty Fish, Episode 603, **Dan Rather Reports**. October 13, 2011
Alien Invaders, **WPBT2 Changing Seas**. June 7, 2011*
**Suncoast Emmy Nominee for Best Documentary*
To Catch a Lionfish, Katie Couric & Co. **CBS News**. August 25, 2009
Cayman Island Daybreak, **Cayman 27 Morning News**. March 27, 2009

Radio

Why invasive lionfish are so hard to eradicate from South Florida waters, **WLRN Miami**. July 1, 2013
Lionfish derbies show promising results, **WLRN Miami**. August 23, 2012
Conservation Talk, Morning Show, **BON FM 102.7**. April 12, 2009

SKILLS AND INTERESTS

Facilitator, Canadian Institute for Restorative Justice (certified 2004)
**volunteer with the Abbotsford Restorative Justice Association*
Scientific Research Diver, Canadian Association of Underwater Science (CAUS; certified 2007) and American Association of Underwater Science (AAUS; certified 2013)
**over 1,000 research dives in tropical and temperate waters*
Rescue Diver, Professional Association of Diving Instructors (PADI) (certified 2007)
**over 120 recreational dives logged*
Marine Life Surveyor, Reef Environmental Education Foundation (certified 2008 & 2009)

** Identification training: Pacific Northwest Region Level 3 and Caribbean Region Expert Level 4*

First Aid Attendant, St. John's Ambulance Level 2 with CPR (certified 2015)

Small Vessel Operator Experience, US and Caribbean marine waters (2008-present)

** Over 300 hours of small boat captaincy. Duties include route planning and navigation, and responsibility for the safety of up to 6 crew and passengers.*

Pleasure Craft Operator Card, Transport Canada (certified 2012)

Pianist, Canadian Royal Conservatory of Music (certified 1999)

**Grade 6 level completed*

Coach, British Columbia Micro Soccer Association (certified 2003)

**coaching skills for children under age 12*