

Emily S. Darling, PhD

Banting Postdoctoral Fellow
Department of Ecology and Evolutionary Biology
University of Toronto
25 Willcocks St, Toronto, ON, Canada, M5S 3B2
and
Associate Conservation Scientist
Marine Program, Wildlife Conservation Society
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EDUCATION

- 2012 **PhD: Simon Fraser University, Department of Biological Sciences**
Winner of **Governor General's Gold Medal for Research Excellence,*
Title: Corals in a Stressed World: Synergies, Life Histories and Resilience
Supervisor: Dr Isabelle Côté
- 2005 **BSc (Hons): Queen's University, Biology Department**
Ecology and Evolution
Supervisor: Dr Chris Eckert

RESEARCH POSITIONS

- 2016 - today Banting Postdoctoral Fellow, University of Toronto
**Project: Modelling habitat connectivity and non-linear population dynamics to improve resilience to climate change*
- 2014 - today Associate Conservation Scientist, Wildlife Conservation Society
**Coordinator, Global Coral Reef Fisheries Monitoring Program*
- 2013 - 2015 David H. Smith Conservation Research Fellow, University of North Carolina
**Catalyzed a collaboration of 90+ coral scientists to compile the largest empirical database of coral surveys in the Indo-Pacific and test macro-ecological hypotheses of biodiversity patterns and climate refuges*

GRANTS

- 2017 2020 Monitoring the impact of investments in coastal and marine conservation (900,000 USD, MacArthur Foundation) *Principal Investigator / Program Coordinator
- 2017 Implementing *50 Reefs*: A Climate-Smart Solution to Saving Coral Reefs (310,000 USD planning grant, Bloomberg Philanthropies) *Key Project Staff
- 2016 2019 Strengthening and sustaining biodiversity conservation and coastal fisheries in the Vatu-i-Ra Seascape (250,000 USD, MacArthur Foundation) *Key Project Staff
- 2016 2019 Strengthening Cuba's coastal protected areas to improve fisheries management and ecosystem health (350,000 USD, MacArthur Foundation) *Key Project Staff
- 2015 2016 Collaborative Monitoring, Evaluation and Learning Approaches to Community-Based Natural Resource Management (250,000 USD, Margaret A. Cargill Foundation)
*Co-Principal Investigator / Key Project Staff

- 2014 – 2017 A Program for Monitoring the Impact of the MacArthur Foundation's 10-Year Coastal and Marine Strategy (900,000 USD, MacArthur Foundation) *Principal Investigator / Program Coordinator
2011 - 2012 PADI Foundation Grant (4,500 USD)

FELLOWSHIPS

- 2016 - 2018 Banting Postdoctoral Fellowship, NSERC Canada (140,000 CAD)
2013 - 2015 David H. Smith Conservation Research Fellowship (140,000 USD)
2012 - 2012 Simon Fraser University Graduate Fellowship (6,250 CAD)
2011 - 2012 WWF Kathryn Fuller Doctoral Fellowship (20,000 USD)
2011 - 2012 Simon Fraser University Graduate Fellowship (6,250 CAD)
2011 - 2011 Simon Fraser University President's Research Stipend (6,250 CAD)
2010 - 2010 Simon Fraser University Graduate Fellowship (6,250 CAD)
2009 - 2010 International Development Research Centre (IDRC) Doctoral Research Award (20,000 CAD)
2009 - 2010 NSERC Canada Graduate Scholarship – Foreign Studies Supplement (6,000 CAD)
2009 - 2011 NSERC Canada Graduate Scholarship – PhD (70,000 CAD)
2007 - 2008 Graduate International Scholarship, Simon Fraser University (6,000 CAD)
2006 - 2008 NSERC Canada Graduate Scholarship – Masters (35,000 CAD)
2005 - 2006 Jean Royce Fellowship, Queen's University (22,000 CAD)
2005 NSERC Canada Graduate Scholarship – Masters (17,500 CAD; declined)

AWARDS AND PRIZES

- 2017 Early Career Award, Canadian Society for Ecology and Evolution
2013 Governor General's Gold Medal, Simon Fraser University
2012 Glen Geen Award for Marine Biology, Simon Fraser University
2012 Best Talk, IDEAS (Interdepartmental Ecology of Aquatic Systems) Symposium at SFU
2010 Best Talk, Honorable Mention, Western Society of Naturalists
2010 Best Talk, Society for Conservation Biology conference
2009 Best Talk, Western Indian Ocean Marine Science Association 6th Symposium
2009 Travel Award, Western Indian Ocean Marine Science Association
2008 Travel Award, International Coral Reef Symposium Field Trip Scholarship
2005 Special Undergraduate Poster Session, Ecological Society of America
2005 Best Poster, Queen's University Undergraduate Biology Symposium
2005 NSERC Undergraduate Summer Research Award, University of Toronto
2004 NSERC Undergraduate Summer Research Award, Queen's University

PUBLICATIONS (1604 citations, *h* - index: 19)

Journal articles:

- Mascia MB, Fox HE, Glew L, Ahmadi GN, Agrawal A, Barnes M, Basurto X, Craigie I, **Darling ES**, Geldmann J, Gill D, Holst S, Jensen OP, Lester SE, McConney P, Mumby PJ, Nenadovic M, Parks JE, Pomeroy RS and AT White. Analyzing conservation impacts: evaluation, theory and Marine Protected Areas. In review, *Year in Ecology and Conservation*.
- Zinke J, Gilmour JP, Fisher R, Puotinen M, Maina J, **Darling ES**, Stat M, Richard Z, McClanahan TR, Beger M, Moore C, Graham NAJ, Feng M, Hobbs J-P A, Evans SN, Field S, Shedrawi G, Babcock R and SK Wilson. Gradients of disturbance, environmental conditions and coral community structure for southeastern Indian Ocean reefs. Submitted.

35. Gill DA, Mascia MB, Ahmadi A, Glew L, Leste SE, Barnes M, Craigie I, **Darling ES**, Free C, Geldmann J, Holst S, Jensen O, White A, Basurto X, Coad L, Gates R, Guannel G, Mumby P, Thomas H, Whitmee S, Woodley S and HE Fox. 2017. Capacity shortfalls hinder the performance of marine protected areas globally. *Nature* doi:10.1038/nature21708
34. Webster MS, Colton MA, **Darling ES**, Armstrong J, Pinsky ML, Knowlton N and DE Schindler. 2017. Who Should Pick the Winners of Climate Change? *Trends in Ecology and Evolution* 32: 167-173.
33. **Darling ES** and S D'agata. 2017. Coral Reefs: Fishing for Sustainability. *Current Biology* 27: R57-R76.
32. **Darling ES**, Graham NAJ, Januchowski-Hartley FA, Nash KL, Pratchett MS and SK Wilson. 2017. Relationships between structural complexity, coral traits and reef fish assemblages. *Coral Reefs*, in press.
31. Madin JS, Hoogenboom M, Connolly S, **Darling ES**, Falster D, Huang D, Keith S, Mizerek T, Pandolfi JM, Putnam H, Baird AH. 2016. A trait-based approach to advance coral reef science. *Trends in Ecology and Evolution*, 31: 419-428.
30. Madin JS, Anderson K, Andreason M, Bridge T, Cairns S, Connolly S, **Darling ES**, Diaz M, Falster D, Franklin E, Gates R, Hoogenboom M, Huang D, Keith S, Kosnik M, Kuo C-Y, Lough J, Lovelock C, Luiz O, Martinelli J, Mizerek T, Pandolfi J, Pochon X, Putnam H, Pratchett M, Roberts E, Stat M, Wallace C, Widman E and A Baird. 2016. The Coral Trait Database, a curated database of trait information for coral species from the global oceans. *Scientific Data* 3: 160017.
29. Côté IM, **Darling ES** and C Brown. 2016. Interactions among ecosystem stressors and their importance in conservation. *Proceedings of the Royal Society B: Biological Sciences* 283: 20152592.
28. Watson JEM, **Darling ES**, Venter O, Maron M, Walston J, Possingham HP, Dudley N, Hockings M, Barnes M and TM Brooks. 2016. Bolder science now needed for protected areas. *Conservation Biology* 30: 243-248. DOI: 10.1111/cobi.12645.
27. Rochman, CM, Kross SM, Armstrong JB, Bogan MT, **Darling ES**, Green SJ, Smyth AR and D Verissimo. 2015. Scientific evidence supports a ban on microbeads. *Environmental Science and Technology* 49: 10759-10761. DOI: 10.1021/acs.est.5b03909 ***Supports a policy brief from the Society for Conservation Biology**
26. Green SJ, Armstrong JA, Bogan M, **Darling ES**, Kross S, Rochman C, Smyth A and D Verrissimo. 2015. Conservation needs diverse values, approaches and practitioners. *Conservation Letters* 8: 385-387. DOI: 10.1111/conl.12204
25. Leenhardt P, Teneva L, Kininmouth S, Smith N, Landmead O, **Darling ES**, Claudet J. 2015. Challenges for making marine social-ecological science matter. *Ocean and Coastal Management* 115: 49-60.
24. **Darling ES**. 2015. Use of double-blind review to increase author diversity. *Conservation Biology* 29: 297-299. ***Featured in Nature News**
23. **Darling ES**. 2014. Assessing the effect of marine reserves on increase household food security in Kenyan fishing communities. *PLOS ONE* 9: e113614.
22. **Darling ES**. 2014. Conserve climate refugia. In "A to-do list for the world's parks". *Nature* 515: 28-30.
21. Tingley MW, **Darling ES** and DS Wilcove. 2014. The show must go on: fine- and coarse-filter conservation strategies in a time of climate change. *The Year in Ecology and Conservation* 1322: 92-109.
20. Côté IM, **Darling ES**, Cruz LM, Smith NS, Green SJ, Curtis-Quick J, Akins L and C Layman. 2014. What doesn't kill you makes you wary? Effect of repeated culling on the behaviour of an invasive predator. *PLOS ONE* 9: e94248.

***Media coverage in Conservation Magazine, Science News**

19. McClanahan TR, Ateweberhan M, **Darling ES**, Graham NAJ and N Muthiga. 2014. Biogeography and change among regional coral communities across the Western Indian Ocean. *PLOS ONE* 9: e93385.
18. McClanahan TR, Graham NAJ and **ES Darling**. 2014. Coral reefs in a crystal ball: predicting the future from the vulnerability of corals and reef fishes to multiple stressors. *Current Opinion in Sustainability and Environmental Science* 7: 50-64.
17. Parsons ECM, Shiffman DS, **Darling ES**, Spillman N and AJ Wright. 2014. How Twitter literacy can benefit conservation scientists. *Conservation Biology* 28: 299-301. *Editorial
16. Cinner JE, Huchery C, **Darling ES**, Humphries AT, Graham NAJ, Hicks CC, Marshall N and TR McClanahan. 2013. Evaluating social and ecological vulnerability of coral reef fisheries to climate change. *PLOS ONE* 8: e74321.
15. **Darling ES**, D Shiffman, Côté IM and J Drew. 2013. The role of Twitter in the lifecycle of a scientific publication. *Ideas in Ecology and Evolution* 6: 32-43.
14. **Darling ES**, TR McClanahan and IM Côté. 2013. Life histories predict coral community disassembly under multiple stressors. *Global Change Biology* 19: 1930-1940.
13. Favaro B, Braun DC, **Earth₂Ocean Research Derby**. 2013. The 'Research Derby': A pressure cooker for creative and collaborative science. *Ideas in Ecol. and Evolution* 6: 40-46.
12. Schultz J, **Darling ES** and IM Côté. 2013. What is an endangered species worth? Threshold costs for protecting imperiled fishes in Canada. *Marine Policy* 42: 125-132.
11. Phillis CC, O'Regan SM, Green SJ, Bruce JEB, Anderson SC, Linton JN, **Earth2Ocean Research Derby** and B Favaro. 2012. Multiple pathways to conservation success. *Conservation Letters* 6: 98-106.
10. **Darling ES**, Alvarez-Filip L, Oliver TA, McClanahan TR and IM Côté. 2012. Evaluating life-history strategies of reef corals from species traits. *Ecology Letters* 15: 1378-1386.
*Selected as a must-read by the Faculty of 1000
9. McClanahan TR, Donner SD, Maynard JA, MacNeil MA, Graham NAJ, Maina JM, Baker AC, Alemu JB, Beger M, Campbell SJ, **Darling ES**, Eakin CM, Heron SF, Jupiter SD, et al. 2012. Prioritizing key resilience indicators to support coral reef management in a changing climate. *PLOS ONE*, 8, e42884.
8. Kulbicki M, Beets J, Chabanet P, Cure K, **Darling ES**, Floeter S, et al. 2012. Distributions of Indo-Pacific lionfishes *Pterois* spp. in their native ranges: implications for the Atlantic invasion. *Marine Ecology Progress Series* 446: 189-205.
7. **Darling ES**, Green SJ, O'Leary JK and IM Côté. 2011. Indo-Pacific lionfish are larger and more abundant on invaded reefs: a comparison on Kenyan and Bahamian lionfish populations. *Biological Invasions* 13: 2045-2051.
6. **Darling ES** and SCH Barrett. 2011. Sit-and-wait pollination in the spring flowering woodland plant, *Trillium grandiflorum*. *Journal of Pollination Ecology* 8: e1000438.
5. Côté IM and **ES Darling**. 2010. Rethinking Ecosystem Resilience in the Face of Climate Change. *PLOS Biology* 8: e1000438.
*Media coverage in Conservation Magazine
4. **Darling ES**, McClanahan TR and IM Côté. 2010. Combined effects of two stressors on Kenyan coral reefs are additive or antagonistic, not synergistic. *Conservation Letters* 3: 122-130.
3. **Darling ES** and IM Côté. 2008. Quantifying the evidence for ecological synergies. *Ecology Letters* 11: 1278-1286.
2. McClanahan TR, Hicks CC and **ES Darling**. 2008. Fishing pressure, productivity and competition for resources: Malthusian overexploitation and efforts to overcome it on Kenyan coral reefs. *Ecological Applications* 18: 1516-1529.
1. **Darling E**, Samis KE and CG Eckert. 2008. Increased seed dispersal towards geographic range limits in a Pacific coast dune plant. *New Phytologist* 178:424-435. *Selected for Editorial Commentary Highlight in *New Phytologist*

Book chapters:

2. **Darling ES** and JR Rummer. 2015. Strategically Using Social Media. In *Success Strategies from Women in Science* (eds. P. Pritchard and C. Grant). Elsevier, pp. 255-298.
1. **Darling ES** and IM Côté. 2013. Vulnerability of Coral Reefs. In *Climate Vulnerability: Understanding and Addressing Threats to Essential Resources*. Elsevier Inc., Academic Press, 259–270.

Reports and policy briefs:

7. Rochman CM, Kross SK, Bogan M, **Darling ES**, Green SJ, Verissimo D, Smyth A and J Armstrong. 2015. Scientific Evidence Supports a Ban on Microbeads. Society for Conservation Biology, Policy Brief.
6. Jadot C, **Darling ES** and A Brenier. 2015. Madagascar: A Baseline Assessment of Coral Reef Fisheries. Wildlife Conservation Society, 22 pp.
5. McClanahan TR, Muthiga NM and **ES Darling**. 2015. Kenya: A Baseline Assessment of Coral Reef Fisheries. Wildlife Conservation Society, 14 pp.
4. **Darling ES**. 2015. Coral Reef Fisheries Monitoring in the Western Indian Ocean. 3. **Darling ES**, Ahmadi G and H Fox. Envisioning the Future of Collaborative Coral Reef Databases. 2015. National Socio-Environmental Synthesis Center (SESYNC) 2. Filardi C, Sterling E, McCarter J, Jupiter SJ and **ES Darling**. 2015. Solomon Island Biocultural Indicators. 2015. Munda, Western Province, Solomon Islands. *Workshop report
1. Cinner JE, McClanahan TR, Wamukota A, **Darling ES**, Humphries AT, Hicks CC, Huchery C, Marshall N, Hempson T, Graham NAJ, Bodin O, Daw T and E Allison. 2013. Social-ecological vulnerability of coral reef fisheries to climate shocks. *FAO Fisheries and Aquaculture Circular* No. 1082. Rome, FAO. 63 pp.

INVITED PLENARY, SYMPOSIUM AND PUBLIC SPEAKING

- 2016 Symposium Organizer, International Coral Reef Symposium, Hawaii HI, USA
- 2015 WGBH Boston 'Innovation ideaLab – A Pivotal Time for Climate: Stories of Danger and Opportunity
- 2015 Symposium Organizer, International Congress for Conservation Biology, Montpellier, France.
- 2014 **PLENARY**: International Marine Conservation Congress, Glasgow, Scotland.
- 2014 Public Lecture: University of Western Australia, Perth, Australia.
- 2014 Symposium Speaker, World Parks Congress, Sydney, Australia.
- 2014 Symposium Speaker, North America Congress for Conservation Biology, Missoula, MT.
- 2009 Symposium Organizer, International Marine Conservation Congress. Washington, DC.

INVITED SEMINARS

- 2017 Queen's University, Biology Seminar Series, Kingston, Canada
- 2017 University of Waterloo, Graduate course ERS 681 "Transdisciplinary research frameworks"
- 2016 McGill University, Organismal Biology Seminar Series, Montréal, Canada
*Graduate-student invited speaker
- 2016 Lunchtime talk, Wildlife Conservation Society, Bronx NY, USA
- 2015 Shedd Aquarium Seminar Series, Chicago IL, USA.
- 2015 US Coral Reef Task Force – Climate Change Working Group (webinar), USA.
- 2015 Virginia Institute of Marine Sciences, Norfolk VA USA. *Selected by graduate students
- 2013 Dept. of Ecology and Evol. Biology / School of Environment, University of Toronto, Canada.
- 2013 Curriculum in Ecology and the Environment, University of North Carolina at Chapel Hill, USA.
- 2012 Fisheries Centre, University of British Columbia, Canada.
- 2012 Marine Spatial Ecology Lab, University of Queensland, Australia.
- 2012 ARC Centre for Excellence in Environmental Decisions, University of Queensland, Australia.
- 2012 ARC Centre for Excellence in Coral Reef Studies, James Cook University, Australia.

INVITED WORKSHOPS AND WORKING GROUPS

- 2017 NCEAS Science for Nature and People Partnership (SNAPP), “Bio-cultural indicators in the Pacific Islands”, Santa Barbara, CA, USA
- 2016-2017 Canadian Institute for Ecology and Evolution, “Canadian protected areas in a changing climate: a cross-ecosystem approach to designing effective networks of protected areas”, Toronto, ON, Canada.
- 2015-2016 Collaborative Monitoring, Evaluation and Learning in support of Community-Based Natural Resource Management, Margaret A. Cargill Foundation.
- 2016 Wildlife Conservation Society, “Collaborative Coral Reef Fisheries Monitoring in Indonesia” technical workshop and partners meeting, Indonesia. *Organizer
- 2015 United Nations Food and Agricultural Organization (FAO), “MPAs and Fisheries”, Rome, Italy.
- 2015 Wildlife Conservation Society, “Collaborative Coral Reef Fisheries Monitoring for the Western Indian Ocean”, Nosy Be, Madagascar. *Organizer
- 2015 SESYNC, “Envisioning the Future of Collaborative Coral Reef Databases”, Annapolis USA. *Co-organizer
- 2015 American Museum of Natural History / Wildlife Conservation Society. “Biocultural Indicators in the Solomon Islands”, Munda, Solomon Islands. *Co-organizer
- 2014 NCEAS Science for Nature and People Partnership (SNAPP), “Data-Limited Fisheries”, Santa Barbara USA.
- 2014 Macquarie University, “Coral Traits Database”, Sydney, Australia.
- 2014 University of Western Australia, “Coral Resilience and Conservation Planning in Western Australia”, Perth, Australia.
- 2014 University of North Carolina Biology Symposium, “Social Media for Scientists”. Chapel Hill, USA. *Organizer
- 2013-2015 SESYNC / WWF Luc Hoffman Institute, “Solving the Mystery of Marine Protected Area Performance: Linking Governance, Conservation, Ecosystem Services, and Human Wellbeing”, Annapolis, USA.
- 2013 Western Indian Ocean Marine Science Association, “Social Media for Scientists and Managers in the Western Indian Ocean”, Maputo, Mozambique. *Organizer
- 2013 Science Online Oceans, “Podcasts: Ocean Science in 60 seconds (or less)”, Miami, FL. *Co-organizer

ADDITIONAL CONTRIBUTIONS

- 2016 National Geographic Voices, “After El Niño, A Global Strategy to Save Corals”
<http://voices.nationalgeographic.com/2016/06/22/after-el-nino-a-global-strategy-to-save-corals/>
- 2016 Save Our Seas Magazine, “Adapting to Change: The Future of Marine Protected Areas”
<http://www.saveourseasmagazine.com/adapting-to-change/>
- 2016 National Geographic Voices, “Local Eyes on the Reef in the Coral Triangle”
<http://voices.nationalgeographic.com/2016/02/25/local-eyes-on-the-reef-in-the-coral-triangle/>
- 2015 LiveScience.org, “From a Childhood Fascination with Fish to a Career in Conservation”
<http://www.livescience.com/51858-coral-reefs-threatened-but-commitment-to-save-is-strong.html>
- 2015 ClimatePrep.org, “Expedition to a Climate Refuge in Northwest Madagascar”
<http://www.climateprep.org/stories/2016/3/7/expedition-to-a-climate-refuge-in-madagascar>
- 2015 National Geographic Voices, “Conserving Coral Reefs with Community Conservation”
<http://voices.nationalgeographic.com/2015/06/12/expedition-madagascar-conserving-coral-reefs-with-community-conservation/>

- 2015 ClimatePrep.org, “From the Field: Blue Carbon on the Great Barrier Reef”
<http://www.climateprep.org/stories/2016/3/7/from-the-field-blue-carbon-on-the-great-barrier-reef>
- 2014 ClimatePrep.org, “A Changing Climate the World Parks Congress”
- 2014 National Geographic Voices, “Protect Climate Refuges to Help Corals”
<http://voices.nationalgeographic.com/2014/12/03/on-wildlife-conservation-day-protect-climate-refuges-to-help-corals/>
- 2014 ClimatePrep.org, “Fighting global climate change with portfolios of local actions
- 2014 Wildlife Conservation Society, “Koro Island 2014”.
- 2014 ClimatePrep.org, “Can Protected Areas Protect Reefs from Climate Change?”
<http://www.climateprep.org/stories/2016/3/7/can-protected-areas-protect-reefs-from-climate-change>
- 2014 Marine Ecosystems and Management, “Create a portfolio of different conservation actions”.
Contribution to “Managing for resilient ecosystems: faced with limited budgets, should we protect the healthiest or restore the degraded?” Marine Ecosystems and Management 7: 2.
- 2013 The Conversation / London School of Economics Impact of Social Sciences, “Twitter matters as science seeks to make a social impact”
- 2013 The Conversation, “It’s Time for Scientists to Tweet”
- 2012 The SeaMonster, “Lifestyles of the Species-Rich and Famous”

CONTRIBUTED TALKS

- 2016 International Coral Reef Symposium, Honolulu HI, USA
- 2015 Western Indian Ocean Marine Science Association 9th Symposium. Pt Edward, South Africa
- 2015 International Congress in Conservation Biology, Montpellier, France
- 2013 Western Indian Ocean Marine Science Association 8th Symposium. Maputo, Mozambique
- 2013 International Congress in Conservation Biology, Baltimore MD, USA
- 2012 International Coral Reef Symposium, Cairns, Australia
- 2012 SFU IDEAS (Interdepartmental Ecology of Aquatic Systems) Symposium, Burnaby, BC
- 2011 Western Indian Ocean Marine Science Association, Mombasa, Kenya
- 2011 International Marine Conservation Congress, Victoria, BC
- 2011 SFU IDEAS (Interdepartmental Ecology of Aquatic Systems) Symposium, Burnaby, BC
- 2010 American Geophysical Union, San Francisco, CA. *Presentation by Tim McClanahan
- 2010 Western Society of Naturalists, San Diego, CA
- 2010 International Congress in Conservation Biology, Edmonton, AB
- 2009 Western Indian Ocean Marine Science Association, Saint Denis, Réunion
- 2008 International Coral Reef Symposium, Fort Lauderdale, USA
- 2008 Canadian Society for Ecology and Evolution, Vancouver, Canada
- 2007 Ecology and Evolution Retreat, Brackendale, Canada
- 2006 Ecology and Evolution Retreat, Brackendale, Canada
- 2005 Ecological Society of America, Montreal, Canada

TEACHING AND SUPERVISION

Guest lectures:

- 2017 Ecosystems and the Human Footprint (EEB 208, University of Toronto)
- 2017 International Environmental Policy (ENV 322, University of Toronto)
- 2016 The Biology of Conservation (EEB 365, University of Toronto)
- 2014 Climate Change and the Media (GEOG 89, University of North Carolina)
- 2013 Centre for Wildlife Ecology (SFU)
- 2013 Biological Oceanography (BIOL 124, Santa Barbara Community College)

- 2012 Earlham College Semester Abroad in Mombasa, Kenya.
- 2012 General Biology (BISC 102, SFU)
- 2011 Cornerstone Speaker Series (Quest University)
- 2011 Preparation in Academic Skills (SFU)
- 2010 Biological Oceanography (BIOL 124, Santa Barbara Community College)
- 2010 Preparation in Academic Skills (SFU)

Supervision:

- 2016 Montpellier Université, Louis.. (MSc, supervisor: D Mouillot)
- 2013 University of North Carolina, Kelly Speare (undergraduate, supervisor: JF Bruno)
- 2011 Bamfield Marine Sciences Centre Teaching Assistant, Marine Behavioural Ecology
- 2009 University of Nairobi, Keziah Adhiambo (MSc) through Society for Conservation Biology mentoring program.
- 2009 Uppsala University, Angelica Klaussén (MSc)

REVIEWING

I have served as a referee for numerous manuscripts and grants, including service for:

Journals:

Nature Scientific Reports, Current Biology, Proceedings of the Royal Society B, Philosophical Transactions of the Royal Society B, Global Change Biology, Ecology, Frontiers in Ecology and the Environment, Ecosphere, Ecological Applications, Conservation Biology, Conservation Letters, Global Environmental Change, Biological Conservation, Coral Reefs, Ocean and Coastal Management, Current Opinion in Environmental Sustainability, Journal of Ecology, Oikos, Marine Ecology Progress Series, Marine Environmental Research, Marine Policy, Marine Pollution Bulletin, Population and Environment.

Funding agencies:

National Science Foundation (NSF – USA), California Sea Grant Program, David H. Smith Conservation Research Fellowship

SERVICE AND LEADERSHIP

- 2016 – today Co-organizer, Conservation Group in the Dept. of Ecology and Evolutionary Biology, University of Toronto **A monthly meeting for graduate students, postdocs and faculty to engage in conservation science and communication.*
- 2014 - today Managerial Board, The Coral Trait Database, <http://coraltraits.org>
- 2014 - today Editorial Advisory Board, *Global Change Biology*
- 2014 - 2015 Contributor, ClimatePrep.org – World Wildlife Fund’s climate adaptation blog
- 2013 - 2015 Co-Chair, Social Media Committee. Society for Conservation Biology.
- 2013 - 2015 Member, IUCN World Congress on Protected Areas and IUCN-SSA Joint Task Force on Biodiversity and Protected Areas
- 2010 - 2014 Associate Faculty Member, *Faculty of 1000*
- 2011 Student Organizer, International Marine Conservation Congress
- 2011 Conference Organizer, SFU IDEAS Symposium
- 2009 - 2011 Graduate Student Representative, Departmental Graduate Studies Committee
- 2007 - 2012 Co-founder of SFU-UBC Coral Reef Discussion Group
- 2007 - 2010 Graduate Student Mentor, Dept. of Biological Sciences, Simon Fraser University
- 2006 Conference Organizer, Brackendale Ecology and Evolution Retreat

PROFESSIONAL CERTIFICATIONS

Small Vessel Operator Proficiency & MED A3, PADI First Responder and CPR-Oxygen, PADI Rescue Diver, PADI Advanced Open Water, Canadian Association for Underwater Science Scientific Diver (Level 1), PADI Open Water

PROFESSIONAL MEMBERSHIPS

Society for Conservation Biology (lifetime member), International Society for Reef Studies

REFERENCES

Dr Caleb McClennen. Vice President, Strategic Partnerships. Wildlife Conservation Society, Bronx, NY, USA.

Dr Justina Rey. Director, Wildlife Conservation Society Canada, Toronto, ON, Canada

Dr Isabelle Côté. Professor, Department of Biological Sciences, Simon Fraser University, Burnaby, BC, Canada.

Dr Timothy McClanahan. Senior Conservation Zoologist, Wildlife Conservation Society Marine Program, Bronx, NY, USA.

Dr Michael Dombeck. Executive Director, David H. Smith Conservation Research Fellowship, Cedar Tree Foundation.