

Kevin C. K. Ma, PhD

Postdoctoral Fellow

Department of Ocean Sciences, Memorial University of Newfoundland
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EDUCATION

2020	PhD in Oceanography , Université Laval
2012	MSc in Biology , Memorial University of Newfoundland
2008	BSc in Ecology and Environmental Biology (Linguistics Minor), University of British Columbia

RESEARCH EXPERIENCE

Overview: More than ten years of research experience in fundamental and applied marine ecology and biology, including intertidal and subtidal systems from subtropical to polar waters
Extensive experience in executing projects (setting research goals, managing human resources, managing field logistics) in Canada and South Africa
Proficient scientific communication skills (peer-reviewed articles, seminars, and conferences); languages: English (fluent), French (basic), Cantonese (basic), Mandarin (basic)
International and local collaborations with university, government, and museum researchers, industry partners, and Indigenous groups
Current research focuses on echinoderm taxonomy, ecology, and fisheries in Newfoundland (Atlantic Canada) and Nunavut (the Canadian Arctic)

Research history:

2022 – Present	Postdoctoral Fellow (Mitacs Accelerate), Memorial University of Newfoundland (MUN) Research projects on documenting range extensions of deep-sea echinoderms, optimising sea cucumber harvesting and processing in Atlantic Canada, and assessing the feasibility of a sea cucumber fishery in Nunavut; academic host: Annie Mercier (Professor, MUN)
2019 – 2022	Postdoctoral Research Fellow (NRF Bursary), Rhodes University (RU) Research projects on the biogeography of mussels and sea urchins, effects of an environmental gradient on infestation levels and epibiont load on mussel shells, and the relative importance of exploitative and interference competition between two colonial species; academic hosts: Christopher D. McQuaid (Professor Emeritus, RU), P. William Froneman (Professor, RU)
2013 – 2019	PhD Candidate (NSERC CASIN II), Université Laval (UL) Joint university–government research project on optimizing sampling strategies for the early detection and monitoring of marine invasive species at different early life history stages and across multiple scales of space and time; thesis supervisors: Ladd E. Johnson (Professor, UL), Christopher W. McKindsey (government Research Scientist, DFO)
2012	Research Assistant (NSERC CASIN II, Stagiaire DFO), Université du Québec à Rimouski (UQAR) Research projects on seasonal fluctuations in recruitment of biofouling organisms and on the effect of climatic variations and biological invasions on the development of benthic assemblages; principal investigator: Christopher W. McKindsey (Adjunct Professor, UQAR)
2009 – 2012	MSc Candidate (NSERC Supplemental Grant), Memorial University of Newfoundland (MUN) Joint university–government research projects on ascidian biodiversity and zoogeography, on population dynamics of a marine invasive species in Newfoundland, and on best practice guidelines to manage invasive ascidians; thesis supervisors: Don Deibel (Research Professor, MUN), Cynthia H. McKenzie (government Research Scientist, DFO)

2007 & 2008* **Research Assistant** (HRSDC & NSERC USRA), University of British Columbia (UBC)
 Research projects to collect global data on invasive species and to identify critical marine habitats in southern British Columbia by eliciting local ecological knowledge from resource users; principal investigator: Kai M. A. Chan (Assistant Professor, UBC) *summer positions

RESEARCH FUNDING & FELLOWSHIPS

2023 Conference Stipend, Early Career Ocean Professionals (ECOP) Canada (375 EUR)
 2023 Page Publication Grant (No. PP18/2023), Research Office, Rhodes University (3,500 USD)
 2023 – 2024 Mitacs Accelerate Postdoctoral Fellowship (No. 29594) (98,180 CAD)
 2022 Mitacs Accelerate Postdoctoral Fellowship (No. 15224) (15,000 CAD)
 2022 Research Committee Research Grant, Research Office, Rhodes University (15,000 ZAR)
 2021 Travel & Subsistence Grant (No. TSPD07/2021), Research Office, Rhodes University (30,000 ZAR)
 2021 Page Publication Grant (No. PP86/2021), Research Office, Rhodes University (840 EUR)
 2021 Page Publication Grant (No. PP69/2021), Research Office, Rhodes University (1,760 USD)
 2020 Archiving and Publication Bonus (*prime à l'archivage et la publication*), Québec-Océan (500 CAD)
 2020 Research Bonus, South African Research Chairs Initiative (SARChI) in Marine Ecosystems and Resources, National Research Foundation (NRF), Rhodes University (20,000 ZAR)
 2019 – 2022 Postdoctoral Research Fellowship, National Research Foundation (NRF) Bursary (600,000 ZAR)
 2019 Bursary in Marine Ecology (*bourse en écologie marine*), Université Laval (500 CAD)
 2017 Dr. R.C. Frazee & Dr. W.B. Scott Student Research Award, Huntsman Marine Science Centre (2,500 CAD)
 2017 Financial Assistance for Short Training (*aide financière pour formation courte*), Québec-Océan (1,500 CAD)
 2017 Fellowship, Smithsonian Tropical Research Institute (400 USD)
 2016 & 2019 Financial Assistance for Conferences (*aide financière aux congrès*), Québec-Océan (1,000 & 1,000 CAD, respectively)
 2016 & 2019 Individual Grant for a Conference (*subvention individuelle pour un congrès*), Association des étudiant(e)s gradué(e)s en sciences et en génie (AEGSEG), Université Laval (200 & 300 CAD)
 2016 Travel Grant, North Pacific Marine Science Organization (PICES) (800 CAD)
 2015 Travel Grant, Atlantic Canada Coastal & Estuarine Science Society (ACCESS) (200 CAD)
 2015 Travel Bursary, NSERC Canadian Aquatic Invasive Species Network II (CAISN) (2,780 CAD)
 2015 Richard-Bernard Fund (*Fonds Richard-Bernard*), Université Laval (300 CAD)
 2013 & 2019 Educational Grant (*subvention pédagogique*), Association des étudiantes et des étudiants de Laval inscrits aux études supérieures (AELIÉS), Université Laval (150 & 200 CAD)
 2013 & 2018 Léon-Provancher Bursary (*Bourse Léon-Provancher*), Université Laval (300 & 500 CAD)
 2013 – 2016 Graduate Research Fellowship, NSERC Canadian Aquatic Invasive Species Network II (CAISN), (57,000 CAD)
 2013 Grant for a Conference (*subvention congrès*), Association des chercheuses et chercheurs-étudiant(e)s de biologie de l'Université Laval (ACCÉBUL) (75 CAD)
 2012 Student Bursary, Newfoundland Aquaculture Industry Association (300 CAD)
 2012 Graduate Student Travel Assistance, Memorial University of Newfoundland (2,100 CAD)
 2009 – 2011 Graduate Research Fellowship, Natural Sciences and Engineering Research Council of Canada (NSERC) Supplemental Strategic Grant (36,000 CAD)
 2008 Undergraduate Student Research Award (USRA), Natural Sciences and Engineering Research Council of Canada (NSERC) (4,500 CAD)
 2008 Student Initiatives Fund, Alma Mater Society, University of British Columbia (112 CAD) *Funding to attend a scientific conference
 2007 Summer Work Experience (a youth employment program), Human Resources and Skills Development Canada (HRSDC) (4,320 CAD)

AWARDS & PRIZES

2018	Best Talk, 9ème Colloque de département de biologie (symposium), Université Laval
2016	Highly Commended (oral presentation), 9th International Conference on Marine BioInvasions
2015	Best Talk Runner-up, 6ème Colloque de département de biologie (symposium), Université Laval
2014	Best Poster Runner-up, Canadian Aquatic Invasive Species Network, Annual General Meeting
2012	Fellow of the School of Graduate Studies (for outstanding academic merit and a GPA > 3.8), Memorial University of Newfoundland
2010	People's Choice Award (oral presentation), 3rd Annual Biology Graduate Student Symposium, Memorial University of Newfoundland
2008	Best Poster, 7th Multidisciplinary Undergraduate Research Conference, UBC Office of Vice President Research, University of British Columbia

PUBLICATIONS

Summary: 19 publications in scholarly journals (16 first-authored), 1 in review, 1 submitted, 5 in preparation
154 citations, h-index of 8 ([Google Scholar](#) as of January 2024)
Open Researcher and Contributor ID (ORCID) [0000-0003-1678-077X](#)

Publications in scholarly journals: (IF = 2022 journal impact factor)

19. **Ma KCK**, Trenholm R, Hamel JF, Mercier A. 2023. The enigma of stones found in the body cavities of sea cucumbers. *SPC Beche-de-mer Information Bulletin* 43: 32–38. https://www.spc.int/DigitalLibrary/Doc/FAME/InfoBull/BDM/43/BDM43_32_Ma.pdf 0 citations
IF: none
18. Boonzaaijer-Davids MK, **Ma KCK**, McQuaid CD. 2023. Epibiotic association of encrusting bryozoans on shells of an invasive mussel from rocky shores of South Africa, with the description of a new aviculiferous species of *Chaperia*. *Zootaxa* 5258 (2): 197–210. <https://doi.org/10.11646/zootaxa.5258.2.2> 0 citations
IF: 1.026
17. **Ma KCK**, Monsinjon JR, Froneman PW, McQuaid CD. 2023. Thermal stress gradient causes increasingly negative effects towards the range limit of an invasive mussel. *Science of The Total Environment* 865: 161184. <https://doi.org/10.1016/j.scitotenv.2022.161184> 4 citations
IF: 10.753
16. **Ma KCK**, Pulfrich A, Froneman PW, McQuaid CD. 2023. Invasion of rocky shores by a mytilid mussel reveals an abundant-centre distribution coupled with moderate increases in densities at its absolute range limits. *Austral Ecology* 48 (1): 197–214. <https://doi.org/10.1111/aec.13260> 0 citations
IF: 1.771
15. **Ma KCK**, McKindsey CW, Johnson LE. 2022. Detecting rare species with passive sampling tools: Optimizing the duration and frequency of sampling for benthic taxa. *Frontiers in Marine Science* 9: 809327. <https://doi.org/10.3389/fmars.2022.809327> 2 citations
IF: 5.247
14. **Ma KCK**, McQuaid CD. 2021. Review of range extensions of tropical brachyuran crabs into temperate waters of southern Africa. *Crustaceana* 94 (10): 235–1262. <https://doi.org/10.1163/15685403-bja10144> 3 citations
IF: 0.758
13. **Ma KCK**, Redelinghuys S, Gussha MNC, Dyantyi SB, McQuaid CD, Porri F. 2021. Intertidal estimates of sea urchin abundance reveal congruence in spatial structure for a guild of consumers. *Ecology and Evolution* 11 (17): 11930–11944. <http://doi.org/10.1002/ece3.7958> 3 citations
IF: 3.167
12. **Ma KCK**, Gussha MNC, Zardi GI, Nicastro KR, Monsinjon JR, McQuaid CD. 2021. Biogeographic drivers of distribution and abundance in an alien ecosystem engineer: Transboundary range expansion, barriers to spread, and spatial structure. *Journal of Biogeography* 48 (8): 1941–1959. <https://doi.org/10.1111/jbi.14124> 8 citations
IF: 4.810
11. **Ma KCK**, McQuaid CD, Pulfrich A, Robinson TB. 2020. Status of a decennial marine invasion by the bisexual mussel *Semimytilus algosus* (Gould, 1850) in South Africa. *African Journal of Marine Science* 42 (4): 507–515. <https://doi.org/10.2989/1814232X.2020.1820376> 7 citations
IF: 0.893

10. **Ma KCK**, McKindsey CW, Johnson LE. 2020. Larval supply is a limited determinant of settlement at mesoscales across an anthropogenic seascape. *Hydrobiologia* 847: 4015–4029. <https://doi.org/10.1007/s10750-020-04391-y> 1 citation
IF: 2.822
9. **Ma KCK**, Zardi GI, McQuaid CD, Nicastrò KR. 2020. Historical and contemporary range expansion of an invasive mussel, *Semimytilus algosus*, in Angola and Namibia despite data scarcity in an infrequently surveyed region. *PLoS ONE* 15 (9): e0239167. <https://doi.org/10.1371/journal.pone.0239167> 5 citations
IF: 3.752
8. **Ma KCK**, Glon HE, Hawk HL, Chapman CN. 2020. Reconstructing the distribution of the non-native sea anemone, *Diadumene lineata* (Actiniaria), in the Canadian Maritimes: Local extinction in New Brunswick and no regional range expansion in Nova Scotia since its initial detection. *Regional Studies in Marine Science* 34: 101049. <https://doi.org/10.1016/j.rsma.2020.101049> 6 citations
IF: 2.166
7. Carman MR, Colarusso PD, Neckles HA, Bologna P, Caines S, Davidson JDP, Evans NT, Fox SE, Grunden DW, Hoffman S, **Ma KCK**, Matheson K, McKenzie CH, Nelson EP, Plaisted H, Reddington E, Schott S, Wong MC. 2019. Biogeographical patterns of tunicates utilizing eelgrass as substrate in the western North Atlantic between 39° and 47° north latitude (New Jersey to Newfoundland). *Management of Biological Invasions* 10 (4): 602–616. <https://doi.org/10.3391/mbi.2019.10.4.02> 9 citations
IF: 2.282
6. **Ma KCK**, Hawk HL, Goodwin C, Simard N. 2019. Morphological identification of two invading ascidians: new records of *Ascidella aspersa* (Müller, 1776) from Nova Scotia and *Diplosoma listerianum* (Milne-Edwards, 1841) from New Brunswick and Quebec. *BioInvasions Records* 8 (1): 50–64. <https://doi.org/10.3391/bir.2019.8.1.06> 5 citations
IF: 1.672
5. **Ma KCK**, Goodwin C, Cooper JA. 2018. Second record of *Diplosoma listerianum* (Milne-Edwards, 1841) five years after and 280 kilometres from the site of the first record in Nova Scotia. *BioInvasions Records* 7 (2): 159–163. <https://doi.org/10.3391/bir.2018.7.2.07> 7 citations
IF: 1.672
4. **Ma KCK**, Deibel D, Lowen JB, McKenzie CH. 2017. Spatio-temporal dynamics of ascidian larval recruitment and colony abundance in a non-indigenous Newfoundland population. *Marine Ecology Progress Series* 585: 99–112. <https://doi.org/10.3354/meps12437> 8 citations
IF: 2.915
3. **Ma KCK**, Deibel D, Law KKM, Aoki M, McKenzie CH, Palomares MLD. 2017. Richness and zoogeography of ascidians (Tunicata: Ascidacea) in eastern Canada. *Canadian Journal of Zoology* 95 (1): 51–59. <https://doi.org/10.1139/cjz2016-0087> 8 citations
IF: 1.654
2. **Ma KCK**, Simard N, Stewart-Clark SE, Bernier RY, Nadeau M, Willis J. 2016. Early detection of the non-indigenous colonial ascidian *Diplosoma listerianum* in eastern Canada and its implications for monitoring. *Management of Biological Invasions* 7 (4): 365–374. <https://doi.org/10.3391/mbi.2016.7.4.06> 8 citations
IF: 2.282
1. Moore AM, Vercaemer B, DiBacco C, Sephton D, **Ma KCK**. 2014. Invading Nova Scotia: first records of *Didemnum vexillum* Kott, 2002 and four more non-indigenous invertebrates in 2012 and 2013. *BioInvasions Records* 3 (4): 225–234. <https://doi.org/10.3391/bir.2014.3.4.03> 40 citations
IF: 1.672

Forthcoming publications:

- Ma KCK**, Reddy S, Froneman PW, Porri F, McQuaid CD. Early signs of an extralimital population of a tropical brachyuran crab, *Portunus segnis* (Forskål, 1775), in a temperate river in sub-Saharan Africa. Submitted to *BioInvasions Records*. IN REVIEW
- Scott MMF, **Ma KCK**, Wolvin S, Hamel JF, Mercier A. First report of skin ulceration disease from temperate waters of the Northwest Atlantic: The case of the sea cucumber *Cucumaria frondosa*. Submitted to *SPC Beche-de-mer Information Bulletin*. SUMBITTED

Ma KCK, Gao F, Hamel JF, Mercier A. First Canadian record and geographic and bathymetric range extension in the Northwest Atlantic for the dendrochirotid sea cucumber *Pawsonia saxicola*. Target journal: *Journal of the Marine Biological Association of the United Kingdom*. IN PREP.

Corbisier G, **Ma KCK**, Jobson S, Hamel JF, Caulier G, Mercier A. Anatomical variations and anomalies in the sea cucumber *Cucumaria frondosa*: A morphological analysis. Target journal: *Canadian Journal of Zoology*. IN PREP.

Ma KCK, McKindsey CW, Johnson LE. Relative importance of spatial and temporal coverage for rare species sampling and insights into the optimal seasonal timing for site-specific species detection. IN PREP.

Lubbé A, Froneman PW, McQuaid CD, **Ma KCK**. An evaluation of the relative importance of interference and exploitative competition in marine systems. IN PREP.

Ma KCK, Gusha MNC, Rius M, Dievart AM, Wyness A, Bernier-Desmarais A, Zardi GI, Nicastro KR, Froneman PW, McQuaid CD. Records of invertebrate species on intertidal rocky shores across five South African marine ecoregions. IN PREP.

Other publications (theses, conference proceedings, reports):

6.	Mercier A, Penney HD, Ma KCK , Lovatelli A, Hamel JF. 2023. A guide to northern sea cucumbers: The biology and management of <i>Cucumaria frondosa</i> . <i>FAO Fisheries and Aquaculture Technical Paper</i> , No. 700. Rome, FAO, pp. xvii + 92. https://doi.org/10.4060/cc7928en	0 citations
5.	Samy SS, Froneman PW, McQuaid CD, Ma KCK . 2022. A review of decapod biological invasions of polar waters. <i>Biological Science: A Periodical of the Research of the Zoology & Entomology Honours Students</i> 1 (1): 69–74.	0 citations
4.	Ma KCK . 2020. <i>Rare species detection and benthic recruitment across multiple scales of space and time with implications for early detection of marine invasive species</i> . PhD Thesis, Université Laval, Québec, Québec, pp. xxiv + 238. http://hdl.handle.net/20.500.11794/38152	3 citations
3.	Deibel D, McKenzie CH, Rise ML, Thompson RJ, Lowen JB, Ma KCK , Applin G, O'Donnell R, Wells T, Hall JR, Sargent P, Pilgrim BB. 2014. Recommendations for eradication and control of non-indigenous, colonial, ascidian tunicates in Newfoundland harbours. <i>Canadian Manuscript Report of Fisheries and Aquatic Sciences</i> 3039, pp. xi + 60. https://waves-vagues.dfo-mpo.gc.ca/Library/352814.pdf	12 citations
2.	Ma KCK . 2012. <i>Population dynamics of a non-indigenous colonial ascidian tunicate in a subarctic harbour</i> . MSc Thesis, Memorial University of Newfoundland, St. John's, Newfoundland and Labrador, pp. xxii + 211. https://research.library.mun.ca/10937/	9 citations
1.	Ma KCK , Deibel D, McKenzie CH. 2011. Indigenous and non-indigenous ascidian tunicates of Newfoundland and Labrador. <i>Proceedings of the Contributed Papers of the 27th Annual General Meeting of the Aquaculture Association of Canada</i> , Aquaculture Association of Canada Special Publication, No. 17: 58–63. https://aquacultureassociation.ca/wp-content/uploads/bsk-pdf-manager/2017/08/AC2010-Proceedings.pdf	6 citations

INVITED SEMINARS & WORKSHOPS

2023	<u>Speaker</u> , <i>Sanikiluaq Hunters & Trappers Association (HTA) Meeting</i> , Canada (15 November 2023)
2023	<u>Speaker</u> , <i>Invasive Ascidian Workshop</i> , Champney's West Aquarium, Canada (10 July 2023)
2023	<u>Speaker</u> , <i>Sanikiluaq Community Fisheries Workshop</i> , World Wildlife Fund Canada, Canada (webinar; 30 January)
2022	<u>Speaker</u> , <i>Department of Zoology and Entomology: Seminar Series</i> , Rhodes University, South Africa (22 August)
2022	<u>Speaker</u> , Stratford Hall, Canada (2 March)
2021	<u>Panelist</u> , <i>Science, Technology, Engineering, and Mathematics (STEM) and Art Panel</i> , (School for Science and Math at Vanderbilt (SSMV), United States (webinar; 11 June)

- 2020 Speaker, *Research and Career Seminar Series*, School for Science and Math at Vanderbilt (SSMV), United States (webinar; 23 June)
- 2017 Instructor and Organizer, *Ascidian Taxonomy Workshop*, Atlantic Research Centre (ARC), Canada (19 October)
- 2017 Speaker, Huntsman Marine Science Centre, Canada (13 October)
- 2017 Speaker, Bocas del Toro Research Station, Panama (29 June)
- 2017 Speaker, Institut Maurice-Lamontagne, Fisheries and Oceans Canada, Canada (11 May)
- 2015 Speaker and Student Co-organizer, *Aquatic Invasive Species Knowledge Transfer Workshop*, NSERC Canadian Aquatic Invasive Species Network II (CAISN), Canada (17–18 November)
- 2010 & 2012 Speaker, *3rd & 4th Newfoundland and Labrador Aquatic Invasive Species Workshops*, Canada (18–19 March 2010 & 1–2 March 2012)
- 2010 & 2011 Speaker, *Newfoundland and Labrador Aquatic Invasive Species Advisory Committee*, Canada (4 March 2010 & 29 April 2011)
- 2008 Speaker, *Peering into Research: The Seminar Series*, Undergraduate Research Opportunities, University of British Columbia, Canada (6 November)

COMMUNICATION & MEDIA COVERAGE

Print and online content:

- 2021 *Journal of Biogeography*, “ECR Feature: Kevin Ma on the abundance and distribution of invasive mussels” (blog post, 9 October) <https://journalofbiogeographynews.org/2021/10/09/ecr-feature-kevin-ma-on-the-abundance-and-distribution-of-invasive-mussels/>
- 2019 *Québec-Océan*, “Culture on full display adds value to scientific meetings” (blog post, 30 January) <https://quebecocean.wordpress.com/2019/01/30/culture-on-full-display-adds-value-to-scientific-meetings/>
- 2017 *Québec-Océan*, “Taxonomy is more important than ever” (blog post, 14 September) <https://quebecocean.wordpress.com/2017/09/14/taxonomy-is-more-important-than-ever/>
- 2014 *CBC Information Morning Cape Breton*, “Invasive Species Research” (radio interview, 16 July)
- 2013 *The Blue Heron* (The Bras d’Or Stewardship Society), “Lake-wide non-native tunicate research program” (print, July volume, pp. 6–7)
- 2012 *The Cold Harvester*, “A closer look at student research: Seasonal population dynamics of a non-indigenous ascidian tunicate in a subarctic harbour” (print, Winter volume, pp. 29–29)
- 2011 *The Cold Harvester*, “Newfoundland’s alien tunicates: An overview of a collaborative research program to understand and control the spread of the golden star tunicate and violet tunicate” (print, Spring volume, pp. 22–24)
- 2011 *Fisheries and Oceans Canada*, “Aquatic Invasive Species: Golden star tunicate in Newfoundland and Labrador waters” <https://waves-vagues.dfo-mpo.gc.ca/Library/365567.pdf> *content contributor
- 2011 *Fisheries and Oceans Canada*, “Aquatic Invasive Species: Violet tunicate in Newfoundland and Labrador waters” <https://waves-vagues.dfo-mpo.gc.ca/Library/365576.pdf> *content contributor

Social media:

- 2018 Managed social media at [@wcmb2018](#) on Twitter for the 4th World Conference on Marine Biodiversity, Montreal, Canada
- 2015 Managed social media at [@benthics2015](#) on Twitter for the 44th Annual Benthic Ecology Meeting, Quebec City, Canada

CONTRIBUTED TALKS

Scientific meetings:

- 2023 11th European Conference on Echinoderms, Lyon France *two talks were delivered
- 2023 56th European Marine Biology Symposium, Reykjavik, Iceland *delivered by co-author
- 2023 Canadian Meteorological and Oceanographic Society 57th Congress, St. John’s, Canada
- 2022 12th Western Indian Ocean Marine Science Association Scientific Symposium, Gqeberha, South Africa *delivered by co-author
- 2022 10th Biennial Conference of the International Biogeography Society, Vancouver, Canada

2019 12th International Temperate Reefs Symposium, Hong Kong SAR, China
 2016 17th Biennial Benthic Workshop, St. Andrew's, Canada
 2016 45th Annual Benthic Ecology Meeting, Portland, United States
 2016 9th International Conference on Marine BioInvasions, Sydney, Australia (highly commended)
 2015 Atlantic Canada Coastal and Estuarine Science Society 2015 Conference, St. Andrew's, Canada
 2015 44th Annual Benthic Ecology Meeting, Quebec City, Canada
 2013 8th International Conference on Marine BioInvasions, Vancouver, Canada **delivered by co-author*
 2013 42nd Annual Benthic Ecology Meeting, Savannah, United States
 2013 2013 Aquatic Sciences Meeting, New Orleans, United States ** delivered by co-author*
 2012 Cold Harvest™ 2012, 19th Annual Conference and Trade Show, Gander, Canada
 2012 2012 Ocean Sciences Meeting, Salt Lake City, United States
 2011 6th International Tunicate Meeting, Montreal, Canada
 2011 Cold Harvest™ 2011, 18th Annual Conference and Trade Show, Gander, Canada
 2011 7th International Conference on Marine BioInvasions, Barcelona, Spain ** delivered by co-author*
 2010 Aquaculture Canada 2010 and Cold Harvest™ 2010, St. John's, Canada
 2009 30th Annual Pacific Ecology and Evolution Conference, Bamfield, Canada
 2008 Coastal Zone Canada 2008 Conference, Vancouver, Canada

Departmental and network symposia:

2019 10ème Colloque du département de biologie de l'Université Laval, Quebec City, Canada
 2018 9ème Colloque du département de biologie de l'Université Laval, Quebec City, Canada (best talk)
 2017 8ème Colloque du département de biologie de l'Université Laval, Quebec City, Canada
 2016 15ème Québec-Océan Assemblée Générale Annuelle, Rimouski, Canada
 2016 Canadian Aquatic Invasive Species Network Annual General Meeting, Windsor, Canada
 2016 7ème Colloque du département de biologie de l'Université Laval, Quebec City, Canada
 2015 14ème Québec-Océan Assemblée Générale Annuelle, Quebec City, Canada
 2015 Canadian Aquatic Invasive Species Network Annual General Meeting, Halifax, Canada
 2015 6ème Colloque du département de biologie de l'Université Laval, Quebec City, Canada (best talk runner-up)
 2014 13ème Québec-Océan Assemblée Générale Annuelle, Rivière-du-Loup, Canada
 2014 Canadian Aquatic Invasive Species Network Annual General Meeting, Gatineau, Canada (best poster runner-up)
 2014 5ème Colloque du département de biologie de l'Université Laval, Quebec City, Canada
 2013 12ème Québec-Océan Assemblée Générale Annuelle, Rivière-du-Loup, Canada
 2013 Canadian Aquatic Invasive Species Network Annual General Meeting, Kananaskis, Canada
 2011 4th Annual Biology Graduate Student Symposium, Memorial University of Newfoundland, St. John's, Canada
 2010 3rd Annual Biology Graduate Student Symposium, Memorial University of Newfoundland, St. John's, Canada (people's choice award)
 2010 Aldrich Interdisciplinary Conference, Graduate Students' Union, Memorial University of Newfoundland, St. John's, Canada
 2008 7th Multidisciplinary Undergraduate Research Conference, University of British Columbia, Vancouver, Canada (best poster)

SUPERVISION & TEACHING

Supervision of honours research:

2023 Lauren E. Gover, Honours in Biology, Memorial University of Newfoundland (co-supervised)
 Topic: Ontogenic migration and ecological role of sea cucumbers in the Canadian Arctic
**twelve months co-supervision starting in September*
 2022 Sheyenne Samantha Samy, Honours in Zoology, Rhodes University (co-supervised)
 Topic: Review of bio-invasions in polar waters: Drivers of invasiveness of introduced species and invasibility of polar ecosystems **eight months co-supervision from February to September*
 2021 Emma Lee Goodes, Honours in Marine Biology, Rhodes University (co-supervised)

- Topic: Spatial association of endolithic infestation and barnacle epibionts on mussel shells
**three months of co-supervision from August to October*
- 2020 Alicea Lubbé, Honours in Marine Biology, Rhodes University (co-supervised)
 Topic: Review of the relative importance of interference and exploitative competition in marine systems **eight months of co-supervision from March to October*

Supervision of hired research assistants:

- 2023 Andrea Joy Leyte (390 hours); Anuj Jyothikumar (40 hours); Bridget Noreen Duff (40 hours);
Kera Rachel Whitten (40 hours)
- 2022 Alex Laura Tjaden Day (40 hours); Amy Bernier-Desmarais (160 hours); Emma Lee Goodes (40 hours); Kera Rachel Whitten (40 hours); Lulutho Mancunga (160 hours); Molline Natanah C. Gusha (80 hours); Rochelle Bessinger (40 hours); Siyamthanda Matiwane (40 hours);
Sonwabise Maneli (80 hours)
- 2015 Émie Audet-Gilbert (40 hours); Jean-Marc Jouve (480 hours); Stéphanie Roy (40 hours)
- 2014 Caroline Potvin (480 hours)
- 2013 Emma Carroll (160 hours); E. Laurence Forget-Lacoursière (480 hours)
- 2011 Laura Chomyshyn (480 hours)

Teaching assistantships and tutorship:

- 2022 Tutor, Honours in Zoology & Entomology (ZOO ENT HONS 2022), Rhodes University
- 2021 Tutor, Honours in Zoology & Entomology (ZOO ENT HONS 2021), Rhodes University
- 2020 Tutor, Honours in Zoology & Entomology (ZOO ENT HONS 2020), Rhodes University
- 2018 Teaching Assistant, *Biodiversity of Invertebrates* (BIO 1011), Université Laval
- 2012 Teaching Assistant, *Principles of Biology* (BIOL 1002), Memorial University of Newfoundland
- 2011 Teaching Assistant, *Biology of Invertebrates* (BIOL 2122), Memorial University of Newfoundland
- 2011 Teaching Assistant, *Ecology* (BIOL 2600), Memorial University of Newfoundland
- 2011 Teaching Assistant, *Evolution & Systematics* (BIOL 2900), Memorial University of Newfoundland
- 2010 Teaching Assistant, *Principles of Biology* (BIOL 1001), Memorial University of Newfoundland

PROFESSIONAL SERVICE

Editorial assignments:

- 2022 – Present Thematic Editor, *World Register of Introduced Marine Species* (WRiMS)
- 2019 – Present Associate Editor, *BioInvasions Records* (BIR), 4 assignments
- 2019 – Present Associate Editor, *Aquatic Invasions* (AI), 4 assignments
- 2019 – Present Associate Editor, *Management of Biological Invasions* (MBI), 3 assignments

Journals that I peer-reviewed for: (20 completed reviews)

- 2023 *Journal of Ecology*; *Aquatic Invasions*; *PLoS One*; *BioInvasions Records* (×2)
- 2022 *PLoS One*; *Estuarine, Coastal and Shelf Science*; *Journal of Experimental Marine Biology and Ecology*
- 2021 *Aquatic Invasions*; *Invertebrate Systematics*; *Journal of Experimental Marine Biology and Ecology*; *Marine Biology*; *Marine Environmental Research*
- 2020 *BioInvasions Records*; *Invertebrate Systematics*; *Marine Pollution Bulletin*
- 2019 *Marine Ecology Progress Series* (×2)
- 2018 *Thalassas: An International Journal of Marine Science*; *BioInvasions Records*

Service and leadership:

- 2023 External Reviewer, Alien Species Risk Analysis Review Panel (ASRARP) Risk Analysis of *Semimytilus patagonicus*, South African National Biodiversity Institute (SANBI), Pretoria, South Africa
- 2023 Organizer, Artisanal Techniques to Process Sea Cucumbers Workshop, Memorial University of Newfoundland, Sanikiluaq, Canada
- 2023 Facilitator, Marine Biology School Program at Paatsaali High School, Memorial University of Newfoundland, Sanikiluaq, Canada

2023 Oral Presentation Judge, 2nd Annual Scientific Endeavours in Academia Conference, Faculty of Science, Memorial University of Newfoundland, St. John's, Canada

2023 Special Awards Judge (*Ocean Sciences Centre Science Fair Award*), Eastern Newfoundland Regional Science Fair, St. John's, Canada

2023 Invited Reviewer, Canadian Science Advisory Secretariat (CSAS) Regional Peer Review Meeting (Assessment of NAFO Subdivision 3Ps Sea Cucumber), Fisheries and Oceans Canada, St. John's, Canada

2021 Science Fair Judge, Eskom Expo for Young Scientists, South Africa

2019 Course Co-developer, Universidad Austral de Chile, *Invasion Ecology* (GCIE 500)

2018 Student Co-organizer, 4th World Conference on Marine Biodiversity, Montreal, Canada

2017 Volunteer, Arctic Change 2017, Quebec City, Canada

2017 Passamaquoddy Bay BioBlitz Participant and Visiting Taxonomist (1-month period), Atlantic Reference Centre (ARC), St. Andrew's, Canada

2017 Student Researcher, Canada C3 Science Program

2015 Student Co-organizer, Aquatic Invasive Species Knowledge Transfer Workshop, Iqaluit, Canada

2015 Student Co-organizer, 44th Annual Benthic Ecology Meeting, Quebec City, Canada

2012 Science Fair Judge, Killarney Secondary School, Vancouver, Canada

2011 Special Awards Judge (*Ocean Sciences Centre Science Fair Award*), Eastern Newfoundland Regional Science Fair, St. John's, Canada

2009 Volunteer, Pacific North Coast Integrated Management Area Forum, Richmond, Canada

2008 – 2010 Data Contributor (no. 66), SeaLifeBase <https://www.sealifebase.se/>

2007 & 2008 Mentor to Junior Undergraduate Students, Tri-mentoring Program, University of British Columbia

2007 Volunteer, South Okanagan National Park Reserve Network, Penticton, Canada

Short-term field assistance and contributions:

2023 Sea cucumber, mussel, and water sample collections from Nunavut; Memorial University of Newfoundland (*Mélie Deshaies, Yuthika Jalim*)

2022 – 2023 Echinoderm collections from Newfoundland; Canadian BioGenome Project (*Samantha Jones*)

2022 Invertebrate collections from Namaqualand; Iziko Museum (*Melissa Boonzaaier-Davids*)

2022 Mussel collections across South Africa for laboratory experiments; Universidade do Algarve and Rhodes University (*Lorenzo Cozzolino, Gerardo I. Zardi, Katy R. Nicastro*)

2020 Invertebrate collections from rocky shores of Cape Agulhas; Rhodes University (*Adam J. Wyness*)

2019 & 2020 Mussel collections and installation of experimental cages on rocky shores across South Africa; Rhodes University (*Cassandra Barker, Mauricio Orostica Vega*)

2019 Seaweed and sea urchin collections from rocky shores South Africa; Rhodes University and South African Institute for Aquatic Biodiversity (*Molline N. C. Gusha, Suzanne Redelinghuys*)

2019 Installation of larval traps; South African Institute for Aquatic Biodiversity (*Seshnee Reddy*)

2018 Seaweed collections from the St. Lawrence River for experiments; Université Laval (*Manon Picard*)

2017 Ascidiaceans collections from New Brunswick; Universidade Federal do Paraná (*Rosana M. da Rocha*)

2016 Seaweeds collections from the rocky shores of Nova Scotia; Université Laval (*Ladd E. Johnson*)

2013 Taxonomic identification of fouling species at Lunenburg; Université Laval (*Heather L. Hawk*)

2012 – 2015 Boat operator in the St. Lawrence River; Université Laval (*Nathan Haag, Filippo Ferrario*)

2012 Field estimates of current velocities in Prince Edward Island; McGill University (*Brian Leung*)

2007 Collections of deer mice in the South Okanagan; University of British Columbia (*Jack Teng*)

2006 Field surveys for eelgrass in Semiahmoo Bay; University of British Columbia (*Ramona C. de Graaf*)

OTHER WORK EXPERIENCE (non-academic and non-teaching positions)

2017 & 2019 Proctor (*surveillance d'examen*, part-time), Département de biologie, Université Laval

2012 – 2014 Intern (*stagiaire*), Fisheries and Oceans Canada (DFO) **this position also facilitated doctoral studies*

2011 – 2012 Waste Audit Co-ordinator (part-time), Sustainability Office, Memorial University of Newfoundland

2009 Administrative Assistant (full-time), Northwest Wildlife Preservation Society (NWPS)

2008 – 2009 Intern (part-time), Ocean Wise and River Works (conservation programs), Vancouver Aquarium

CERTIFICATIONS & TRAINING

2023	Workplace Violence Prevention for Supervisors
2022	Workplace Hazardous Materials Information System (WHMIS) <u>Course</u> <i>*also in 2009, 2014, 2018</i>
2022	Laboratory Safety <u>Course</u> <i>*2009</i>
2021	Strengthening Postgraduate Supervision
2021	Environmental variables: How to obtain and process them with R <u>Course</u> , Transmitting Science
2021	Obtaining and cleaning species occurrence data with R <u>Course</u> , Transmitting Science
2018	Mapping in R: Basic and Advance Tools <u>Workshop</u> , Québec-Océan
2017	Taxonomy and Biology of Tunicate <u>Course</u> , Smithsonian Tropical Research Institute
2017	Information Security Awareness <u>Training</u> (ITS100), Smithsonian Institution
2017	DAN Emergency Oxygen Provider for Scuba Diving Injuries <u>Course</u> (2526111) <i>*2014</i>
2017	Wilderness and Remote First Aid <u>Training</u>
2016	PADI Open Water Diver <u>Certification</u> (1601AP5650)
2014	DAN Basic Life Support: CPR and First Aid <u>Course</u>
2013	Small Vessel Operator Proficiency (SVOP) and Small Non-pleasure Vessel Basic Safety <u>Certifications</u> , Canadian Coast Guard (MAR2013073 & MAR2013074)
2013	Theoretical and Practical Trailer Towing <u>Training</u>
2009	Marine Basic and Standard First Aid <u>Course</u> (11R3QHH & 11QMF44)
2009 – Present	Driver's <u>Licence</u> , Newfoundland and Labrador (M850123074: 2022–2028), Québec (M000523018504: 2014–2017 & 2017–2025), British Columbia (8065434: 2009–2014 & 2022–2027)

PROFESSIONAL MEMBERSHIPS

2019 – Present	Associate Member, International Association for Open Knowledge on Invasive Alien Species
2013 – 2019	Student Member, Québec-Océan
2012 – 2015	Highly Qualified Personnel (HQP), NSERC Canadian Aquatic Invasive Species Network II

CURRENT & PAST SUPERVISORS

Annie Mercier, Professor, Department of Ocean Sciences, Memorial University of Newfoundland, St. John's, Newfoundland and Labrador, Canada; amercier@mun.ca

P. William Froneman, Professor, Department of Biological Sciences, University of Cape Town, Cape Town, Western Cape, South Africa; w.froneman@ru.ac.za **previously at Rhodes University*

Christopher D. McQuaid, Professor Emeritus and Distinguished Fellow, Department of Zoology and Entomology, Rhodes University, Grahamstown, Eastern Cape, South Africa; c.mcquaid@ru.ac.za

Ladd E. Johnson, Professor (*Professeur titulaire*), Département de biologie, Université Laval, Quebec City, Quebec, Canada; ladd.johnson@bio.ulaval.ca

Christopher W. McKindsey, Research Scientist (*Chercheur*), Fisheries and Oceans Canada (DFO), Institut Maurice-Lamontagne, Mont-Joli, Quebec, Canada; chris.mckindsey@dfo-mpo.gc.ca **also associated with UQAR*