Dominique G. Maucieri

MSc in Biology

Email: dominiquemaucieri@gmail.com

Web: dominiquemaucieri.com

Ph.D. Student University of Victoria Department of Biological Sciences



Interests

Marine Community Ecology, Multiple Stressors, Foundational Species, Quantitative Biology, Coral Reef Biology, Animal Behavior, Geometric Morphometrics

Education

2021 – Present	Doctor of Philosophy in Marine Biology, Biological Sciences, University of Victoria, BC,
2021 1100000	Canada, Senior Advisor: Dr. Amanda Bates
	Thesis: Impacts of the timing, sequence, and intensity of multiple stressors on temperate marine invertebrate communities.
2019 - 2021	Master of Science in Marine Biology, Biological Sciences, University of Victoria, BC,
	Canada, Senior Advisor: Dr. Julia K. Baum
	Thesis: Impacts of local and global stressors on coral biodiversity.
2014 - 2019	Bachelor of Science (Honors) in Ecology and Zoology, Biological Sciences, University of
	Victoria, BC, Canada, Ecology Honors Advisor: Dr. Robert M.R. Barclay, Zoology Honors
	Advisor: Dr. Jessica M. Theodor
	Awarded First Class Honors for GPA and Research Excellence
	Ecology Thesis: Consumption of spiders by Albertan bats.
	Zoology Thesis: Sexual dimorphism in bat wing morphology – variation among
	foraging styles

Research Experience

2019	South African Shark Conservancy , Intern, tasks included: shark measuring and tagging, baited remote underwater video (BRUV) analysis, quantitative analysis.
2018 - 2019	University of Calgary, Research Assistant, Dr. Robert Barclay's Lab, tasks included: bat
	capture using mist nets and harp traps, morphometric measurements, fecal analysis and training undergraduate researchers.
2017	University of Calgary, Research Assistant, Dr. Leland Jackson's Lab and Advancing
	Canadian Wastewater Assets (ACWA) at the Pine Creek Wastewater Treatment Plant, tasks
	included: chlorophyll pigment extractions and ash free dry mass analyses on biofilm
	collections, water and depth measures in small southern Albertan lakes, water sample analysis
	for total suspended solids, chlorophyll content, phosphorus content, and zooplankton
	density/community composition.
2016	University of British Columbia, Research Assistant, Dr. Kathy Martin's Lab, Hudson's Bay
	Mountain, Smithers, BC, tasks included: banding and measuring nestlings, setting up and
	running predation experiments, observing the bird population behavior, collected last season's
	geo-locators and deployed new geo-locators. The effects of predation on the nestling
	development of the Horned Lark (Eremophila alpestris).

Grants, Fellowships and Awards

PhD (\$106,000	9)
2022 - 2025	NSERC Canada Graduate Scholarship–Doctoral (CGS D; \$105,000)
2021 - 2022	VNHS Alice M. Hay Scholarship (\$1000)
MSc (\$40,949	+ 1000 USD)
	University of Victoria Fellowship (\$15000)
2019 - 2020	NSERC CGS-M (\$23,333)
2020	Advanced Dive Training Grant - Professional (\$1000 USD)
2020	The Maureen De Burgh Memorial Scholarship (\$2616)
BSc (\$35,900)	
2017 & 2018	Hisao P. & Mary Needler Arai Marine Field Studies Scholarship (\$2500)
2018	PURE award (\$4500)
2018	NSERC USRA award (awarded but not accepted due to PURE also being received; \$4500)
2017	Bamfield tuition scholarship (\$700)
2017	Upland Birds Alberta Scholarship (\$1000)
2016 & 2017	Louise McKinney Scholarship (\$5000)
2015 & 2017	University of Calgary Undergraduate Merit Awards (\$3000)
2016	University of Calgary General Undergraduate Scholarship (\$5000)
2016	Grace LeBel Bursary (\$900)
2015	Jason Lang Scholarship (\$1000)
2015	President's Admission Scholarship (\$2000)
2014 & 2015	Gerald Roberts Mortimer and Victor Emanuel Mortimer Scholarship (\$2500)
2014	Royal Canadian Legion (Branch 288) Scholarship (\$800)
2014	Alexander Rutherford Scholarships (\$2500)

Awards

2019	Honors Presentation Award Winner for Zoology
2014 - 2018	Dean's List

Publications

In the pipeline:

Baum, J.K., D.C. Claar, K.L. Tietjen, J.M.T. Magel, **D.G. Maucieri**, K.M. Cobb, and J.M. McDevitt-Irwin. Transformation of coral communities subjected to an unprecedented heatwave is modulated by local disturbance. Science Advances (In Review).

Maucieri, D.G., S. Starko, and J.K. Baum. Disentangling the impacts of multiple stressors on coral reef diversity: tipping points and interactive effects. (In Prep).

2021

Maucieri, D.G., and J.K. Baum. 2021. Impacts of heat stress on soft corals, an overlooked and highly vulnerable component of coral reef ecosystems, at a central equatorial Pacific atoll. Biological Conservation 262: 1-10. DOI: 10.1016/j.biocon.2021.109328

Maucieri, D.G., A.J. Ashbaugh, and J.M. Theodor. 2021. Sexual dimorphism in bat wing morphology – variation among foraging styles. Canadian Journal of Zoology 99(11): 953-960. DOI: <u>10.1139/cjz-2021-0035</u>

Maucieri, D.G., and R.M.R. Barclay. 2021. Consumption of spiders by the little brown bat (*Myotis lucifugus*) and the long-eared bat (*Myotis evotis*) in the Rocky Mountains of Alberta, Canada. Canadian Journal of Zoology. 99(3): 221-226. DOI: 10.1139/cjz-2020-0160

Teaching and Mentorships

Teaching Experience		
2020	Coral Identification Training, University of Victoria, four undergraduate students.	
2019 – Present	Teaching Assistant, University of Victoria, BIOL 215, Intro to Ecology (thrice); BIOL 230,	
	Principle of Genetics; BIOL 466, Frontiers in Marine Biology; BIOL 330/ES 344 Study	
	Design and Data Analysis (twice),.	
2019 - 2020	Course Development, including six tutorials and two R Assignments, BIOL466, Frontiers in	
	Marine Biology.	
2018	Teaching Assistant , University of Calgary, BIOL 241, Energy Flow in Biological Systems.	
Mentorships		
2020 - 2021	Rebecca Hansen, University of Victoria (Honours, Supervisor; Dr. Julia K. Baum).	
2019 - 2020	Women in Science Mentor, Faculty of Science, University of Victoria.	
2015 2010		
2017 - 2019	Peer Mentor , Undergraduate Sciences Center, University of Calgary.	
2017 – 2019 2018	Peer Mentor, Undergraduate Sciences Center, University of Calgary. Advisor, Faculty of Science Research Nights, University of Calgary.	
2018		

Conferences

Presentations	
Mar 2022	Maucieri, D.G., and A.E. Bates. Impacts of multiple stressors on temperate marine
	invertebrate communities and the role of local refugia in community resilience – 3-minute talk,
	Pacific Ecology and Evolution Conference (PEEC) in Victoria BC
Aug 2021	Maucieri, D.G., Samuel Starko, and J.K. Baum. Disentangling the impacts of multiple
	stressors on coral reef diversity - 12-minute talk (Virtual), Canadian Society for Ecology and
	Evolution (CSEE).
July 2021	Maucieri, D.G., Samuel Starko, and J.K. Baum. Impacts of local and global stressors on the
	structure and beta diversity of coral communities - poster presentation (Virtual), International
	Coral Reef Symposium (ICRS).
Nov 2020	Maucieri, D.G. Impacts of heat stress on soft corals, an overlooked, but fundamental
	component of coral reef ecosystems - 5-minute talk, Western Society of Naturalists
	Conference, https://youtu.be/tVeY2Er2Ijk
July 2020	Maucieri, D.G. Impacts of local and global stressors on the structure and diversity of coral
	reef communities – 15-minute talk, Global Coral Reef Week, https://youtu.be/0MgfzmjCZoE
Feb 2019	Maucieri, D.G. Sexual dimorphism in bat wing morphology – variation among foraging styles
	– 12-minute talk, Prairie University Biology Symposium (PUBS) in Winnipeg, Canada.
Oct 2018	Maucieri, D.G. Spider consumption by bats – poster presentation, North American
	Symposium for Bat Research (NASBR) in Puerto Vallarta, Mexico.

Organizing Committees

Organizing Committees	
2021 - 2022	Registration and Communications Chair for the Pacific Ecology and Evolution Conference
	2022. https://peec2022.wordpress.com/
2022	Social Committee member for the University of Victoria Graduate Student Symposium
2019	Abstract Committee member for the University of Victoria Graduate Student Symposium

Aut. & Cre. quadcleanR



Communication and Outreach

		1		
M	0	А	'ia	
7.1	·	u	ιu	

2021 Interviewed on Impostor Syndrome for the Graduate Matters blog at University Affairs.

https://www.universityaffairs.ca/career-advice/graduate-matters/you-arent-the-only-one-

suffering-from-imposter-syndrome/

Outreach Activities

2019 – Present	Skype a scientist program. I connect with classes online, to teach them about sharks, corals,
	and our oceans (8 classes ranging from 1 st grade to 12 th grade)
2022	3-minute thesis competitor. Developing presentation and scientific communication skills
2021 - 2022	Judge for the 2021 and 2022 BC/Yukon Science Fair
2021	Elementary school outreach teaching children about marine invertebrates
2019	Shark outreach talks with the South African Shark Conservancy, educating the public about
	shark biology and conservation.
2019	Bat expert with the Alberta Community Bat Program, leading tours and educating about bats.
2018 - 2019	Elementary school presentations on the diversity and biology of bats.

Volunteer

2019 – Present	Shaw Center for the Salish Seas Oceaneer educating the public on the Salish Seas and the organisms that live there
2017 - Present	Bamfield Marine Science Center Ambassador
2021 - 2022	Organizing lab meetings for the Bates lab, including coordinating topics and speakers each
	week
2018	Researcher for the Alberta Community Bat Program Bat Blitz in Castle Provincial Park
2016 - 2018	Special Olympics Swimming Coach
2017 - 2018	Sustainability Ambassador with the Sustainability Resource Center
2016 - 2017	Volunteer with the Calgary Wildlife Rehabilitation Society
2015 - 2017	VP of Events in the Students for Special Olympics club at the University of Calgary

Employment History

2013 - 2019	Shift Leader, Lifeguard and Swim Instructor with the City of Airdrie.
2015	Kananaskin Camp Counsellor with the YMCA Camp Chief Hector, leading 5-day
	backpacking trips throughout Banff National Park for 13-year-olds campers.

Professional Certifications

Currently:

- Canadian Association for Underwater Science Scientific Diver (CAUS Level I)
- PADI Rescue Diver and Dry Suit Diver
 - o Nitrox & Peak Performance Buoyancy specialties
- Dive Accident Management (DAM)
- DAN Oxygen Provider
- Standard First Aid and CPR-C with AED (SFA) Lifesaving Society
- Pleasure Craft Operators Card (PCOC)
- Small Vessel Operator Proficiency (SVOP)
- Small Domestic Vessel Basic Safety (SDV-BS)
- Restricted Operator Certificate Maritime (ROC-M)

Previously:

- Standard First Aid and CPR Instructor Lifesaving Society
- National Lifeguard certification (NL)
- Water Safety Instructor certification (WSI)
- Lifesaving Instructor Certification (LSI)

Peer Review

- Global Ecology and Biography (2 Reviews)

Professional Memberships

- Western Society of Naturalists (WSN)
- North American Society for Bat Research (NASBR)
- International Coral Reef Society (ICRS)
- Women Divers Hall of Fame (WDHOF)