Jake Lawlor PhD Student

CONTACT

McGill University Department of Biology Montréal, QC, Canada

□ jakelawlor.github.io

njakelawlor

jake_lawlor¹

PROGRAMMING SKILLS

Languages

R - proficient MATLAB - familiar

Data Base

SQL

Web

ShinyApp HTML CSS

Markdown

Version Control

Git

EDUCATION

2020- Ph.D. Biology McGill University

Effects of species traits, protective status, and environmental forces on species range shifts ADVISED BY DR. JENNIFER SUNDAY

2017-19 **M.S. Biology** Western Washington University

Modeling climate-dependent larval growth rate and duration of Olympia oysters in the Salish Sea Advised By Dr. Shawn Arellano

2011-15 B.Sc. Environmental Science

The University of Texas

GRANTS AND FELLOWSHIPS

2021 Quebec Doctoral Research Scholarship

FRQNT

• \$77,000 fellowship for 3.5 years

International Graduate Tuition Award

Dr. Lawrence Light Graduate Fellowship in Sustainability

McGill U

• \$10,000 fellowship + \$4,000 for undergraduate researcher

2020 Computational Biodiversity Science and Services (BIOS²) Fellowship NSERC CREATE

• \$10,500 fellowship + \$2,000 mobility funds, renewable 3 years

McGill U

• \$13,500 international tuition award, renewable 4 years

2019 Biology Student Conference Travel Grant Western Washington U

College of Science & Engineering Student Travel Award Western Washington U

Ross Travel Grant Western Washington U

2018 Visiting Internship Student Award

Hong Kong U Sci & Tech

• 2-month internship in the Chan Quantitative Plankton Ecology Lab

Enhancement of Graduate Research Fund Project Grant Western Washington U

Steve Sulkin Graduate Research Fellowship Shannon Pt. Marine Center

2015 Multicultural Initiative in Marine Science: Undergraduate Participation

Sharifion Ft. Marifie Certe

NSF

• One of eight nationally selected for 6-month NSF marine science research program

HONOURS AND AWARDS

2020	Best Poster Presentation Award	Quebec Centre for Biodiv. Sci. Conference
	Outstanding Graduate Student Award	Western Washington U. Graduate School
J	Outstanding Graduate Research Award	Western Washington U Dept. Biology
2019	Honorable Mention Graduate Student Presentation	PERS Conference 2019
2018	"Washingtonian of the Day" Award	Awarded by Gov. Jay Inslee
2013	Tanzania: Wildlife Conservation Program Scholarship	School for International Training
2011-13	Undergraduate Merit-Based Scholarship	UT Jackson School of Geosciences

PUBLICATIONS

Temperature and salinity, not acidification, predict near-future larval growth and larval habitat suitability of Olympia oysters in the Salish Sea.

Lawlor, J. and Arellano, S. Scientific Reports 10:13787

2020 Software Package - PNWColors: Color Palettes Inspired by Nature in the US Pacific Northwest

Lawlor, J. PNWColors R package version 0.1.0. (>6500 downloads from <u>CRAN</u>)

in rev: Priorities for synthesis in ecology and environmental science

Halpern, B., Boettiger, C., Dietze, M., Lawlor, J. (116 coauthors)

In prep: Scaling Up Climate-Dependent Larval Growth Rates & Behaviors to Population Distributions

of Oysters in a Changing Ocean

Lawlor, J., Khangaonkar, T. and Arellano, S. In prep for Frontiers in Biogeography

EMPLOYMENT AND INTERNSHIPS Vaccine-Preventable Diseases Data Science Intern Precision Analytics | Montreal, QC Interactive Web App Developer for Exploring Species Distribution Model Outputs Fisheries and Oceans Canada - Aquatic Climate Change Adaptation Services Program | Maritimes Freelance Data Analyst / Data Visualization Specialist 2020 Clients include a California Carbon Pricing Consultancy, ACLU of Washington, and CratedWithLove food delivery service. Hosted through upwork.com Larval Biology Research Associate 2019 Shannon Point Marine Center | Anacortes, WA R/V Tiglax 14-Day Research Cruise Consultant Northern Gulf of Alaska Long Term Ecological Research Study Area | Seward, AK Chan Quantitative Plankton Ecology Lab Visiting Internship Student 2018 Hong Kong University of Science and Technology | Hong Kong SAR, China Shellfish Research Hatchery Technician 2017 University of North Carolina Wilmington CREST Research Park | Wilmington, NC 2016 Arellano Larval Lab Research Technologist Shannon Point Marine Center | Anacortes, WA Matz Coral Genomics and Adaptation Lab Undergraduate Research Assistant 2015 The University of Texas | Austin, TX National Science Foundation Undergraduate Research Fellow Shannon Point Marine Center | Anacortes, WA 2014 Phelps Social Neuroscience Lab Undergraduate Research Assistant The University of Texas | Austin, TX Vertebrate Paleontology Lab Curation and Collections Assistant The University of Texas Pickle Research Campus | Austin, TX **CONFERENCE PRESENTATIONS** Québec Centre for Biodiversity Science, Poster + Speed Talk | Virtual 2020 How have we detected range shifts? A review and synthesis · CO-PRESENTATION WITH UNDERGRADUATE MENTEE, BRIT VAN AMEROM BEST POSTER PRESENTATION AWARD Western Society of Naturalists Conference, Oral Presentation | Virtual Using interacting environmental gradients to predict larval success in future oceans Species on the Move Conference, Poster Presentation | Kruger NP, South Africa 2019 Scaling up climate-dependent larval growth rates and behaviors to population distributions of oysters in a changing ocean Pacific Estuarine Research Society (PERS) Conference, Fast Talk | Anacortes, WA Effects of interacting climate stressors on Olympia oyster larval growth rate and duration GRADUATE STUDENT PRESENTATION HONORABLE MENTION International Larval Biology Symposium, Poster Presentation | Honolulu, HI 2017 Effects of multiple stressors on Olympia oyster larval swimming WWU All University Scholars Week, Poster Presentation | Bellingham, WA 2015 Effects of acidification and warming on Olympia oyster larval swimming and growth Pacific Estuarine Research Society (PERS), Poster Presentation | Seattle, WA Effects of acidification and warming on Olympia oyster larval swimming and growth NOAA Alaska Fisheries Science Center, Oral Presentation | Seattle, WA Oysters in a changing ocean: effects of acidification and warming on larval swimming UT Environmental Science Institute Symposium, Poster Presentation | Austin, TX 2014 Intertidal donation in stands of Sonneratia alba on the shorelines of Northern Tanzania School for International Training Symposium, Oral Presentation | Arusha, Tanzania

Intertidal donation in Northern Tanzanian mangrove stands

TEACHING

R Workshop Instructor

2021	Programming in R: 4-hour workshop	Quebec Centre for Biodiv. Sci.
	Data Visualization: 4-hour workshop	Quebec Centre for Biodiv. Sci.
	Creating Shiny Apps in R 6-hour workshop & development	BIOS2 Program
ļ	Generalized Additive Models in R	Quebec Centre for Biodiv. Sci.
2020	Software Carpentry: 16-hour workshop	BIOS2 Program
	Data Carpentry: 16-hour workshop	BIOS2 Program
	Introduction to R: 4-hour workshop	Quebec Centre for Biodiv. Sci.
	Data Visualization: 4-hour workshop & development	Quebec Centre for Biodiv. Sci.

Guest Lecturer

2021	Introduction to Graduate Studies in Biology "Data Visualization as a Professional Skill:"	McGill Biology Grad Studies
	Summer NSF REU R Workshop Series "101 Things You Can Do in RStats"	Shannon Point Marine Center
2020	BIOL 407: Marine Ecology Guest lecture in marine biogeography and proposal writing	WWU Marine & Coastal Sci.
	BIOL 399: Intro Experimental Design and Statistics Guest lecture in statistical programming	Oregon Inst. of Marine Biol

Teaching Assistant

2021	ATOC 184: The Science of Storms	McGill Atmospheric & Ocean Sci.
2020	ATOC 185: Natural Disasters	McGill Atmospheric & Ocean Sci.
	ATOC 184: The Science of Storms	McGill Atmospheric & Ocean Sci.
2018	BIOL 465: Algae	WWU Biology
	BIOL 405: Marine Ecology	WWU Biology
2017	BIOL 101: Introductory Biology six sections	WWU Biology
2015	UGS 302: Austin Area Environmental Issues (undergrad TA)	U. Texas Env. Sci.

CAMPUS AND COMMUNITY SERVICE

2021	Peer Reviewer	
	Ecology Letters	

Data Analyst

McGill Biology Graduate Student Association | Montreal, QC

BIPOC Undergraduate Research Award Selection Committee Member - Grad. Representative McGill Department of Biology | Montreal, QC

New Faculty Student Search Committee Member - Spousal Hire Search

McGill Department of Biology | Montreal, QC

Pro Bono Data Scientist for Quebec Nonprofit Organizations 2020 Data for Good Montreal | Montreal, QC

2019 New Faculty Student Search Committee Member - Professor and Marine Lab Director Searches Western Washington University Marine and Coastal Science Program | Bellingham, WA

2018 Graduate Student Advisory Council - Marine Center Representative Shannon Point Marine Center & Western Washington University | Bellingham, WA

Vice President 2014

Texas Geological Energy and Environmental Leadership Organization (GEELO) | Austin, TX

2011-14 Volunteer Science Tutor for Standardized Test Preparation

Neighborhood Longhorn Program | Austin, TX

WORKSHOPS & SPECIAL COURSES

2021 Coastal Oceans Working Group

Data Science x Design Creators Conference
Future of Synthesis in Science Workshop

NSERC-CREATE Living Data Project

DSxD

NCEAS

SCIENCE COMMUNICATION

2018-19 Instagram Manager, Shannon Point Marine Center — @www.shannonpoint

2018 Science Journalist, University of Washington Puget Sound Institute

The Puget Sound Coastal Storm Modeling System
Published Aug. 2018 in Encyclopedia of Puget Sound

OUTDOOR EDUCATION AND OUTREACH

Camp Fire USA | Austin, TX

Summers Sea Kayak Guide / Naturalist on one-to-five-day Kayak Trips 2015-19 Anacortes Kayak Tours | Anacortes, WA Monthly "Outdoor Friday" Program Leader 2019 Fiddlehead Montessori School | Anacortes, WA Outdoor School Substitute Teacher 2019 Fidalgo Nature School | Anacortes, WA 2017 International Trip Guide for High School Students - Thailand Adventures Cross Country | Mill Valley, CA & Bangkok, Thailand Marine Ecology Outdoor School Instructor for 3-day Programs 2016 Academic Adventures | Anacortes, WA 2015 Marine Science Elementary Teacher for 2nd Grade Classrooms Anacortes School District | Anacortes, WA Summers Summer Camp Environmental Stewardship Director 2012-14 John Knox Ranch | Fischer, TX After-School Outdoor Education Program Leader 2014