

PERSONAL DETAILS

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ACADEMIC QUALIFICATIONS

Ph.D. Candidate in Computational Biology and Bacterial Genomics Present

McMaster University, Hamilton, ON

Supervisors: Professor G. Brian Golding

Thesis Title: Spatial Patterns of Molecular Trends in Bacterial Genomes

B.Sc Honours With Distinction Mathematics and Biology 2011-2015

McMaster University, Hamilton, ON

Supervisors: Professor G. Brian Golding

Honours Thesis Title: Substitution Rates in Relation to Position on the Replicons of *Sinorhizobium*

CODING AND HIGH PERFORMANCE COMPUTING

Python	Unix command line
R	tcsh
Shiny	bash
L ^A T _E X	zcs
Perl	GitHub

PUBLICATIONS

- [1] Lato, D. F. and Golding, G. B. (2020). Spatial Patterns of Gene Expression in Bacterial Genomes. *J Mol Evol*.
- [2] Moretti, M. E., Lato, D. F., Berger, H., Koren, G., Ito, S., and Ungar, W. J. (2017). A cost-effectiveness analysis of maternal CYP2D6 genetic testing to guide treatment for postpartum pain and avert infant adverse events. *Pharmacogenomics J*.

PROFESSIONAL EXPERIENCE

Undergraduate Research Assistant Biology, McMaster University, Hamilton, ON

Supervisor: Dr. G. Brian Golding

2014

Undergraduate Research Assistant Surgical Oncology, University of Toronto, Toronto, ON

Supervisor: Dr. Usmaan Hameed

2013

Undergraduate Research Assistant Motherisk, The Hospital for Sick Children, Toronto, ON

Supervisor: Dr. Myla E. Moretti

2012

TEACHING

Teaching Assistant <i>Introduction to Bioinformatics</i> 2015-Present	Department of Biology, McMaster University	
Teaching Assistant <i>Genetics</i> 2015-Present	Department of Biology, McMaster University	
Guest Lecture <i>Molecular Evolution</i> 2018	Department of Biology, McMaster University	
Workshop Leader <i>Plant Molecular Biology Lab Workshop, Department of Biology, McMaster University</i>		2017
Software Carpentry Leader <i>McMaster University, Hamilton</i>		2017
Teaching Assistant <i>Differential Equations</i> 2014	Department of Mathematics and Statistics, McMaster University	

CONFERENCES/PANEL DISCUSSIONS

Poster Presentation <i>Society for Molecular Biology and Evolution Conference</i> Manchester, UK 2019	Mutation Rate Evolution	
Oral Presentation <i>Ontario Ecology, Ethology, and Evolution Colloquium</i> McMaster University, Hamilton, ON 2019	Evolutionary Biology / Molecular Evolution	
Oral Presentation <i>Intelligent Systems for Molecular Biology Conference</i> Chicago, IL 2018	Evolution and Comparative Genomics COSI	
Panellist <i>Women In Science and Engineering (WISE)</i> McMaster University, Hamilton, ON 2018	EngSci Girl	

HONORS AND AWARDS

Dr. Edna Guest Award \$1,000CAD 2020	Annual Athletic Awards, McMaster University	
Graduate Scholarship \$691CAD per annum 2015 - 2020	McMaster University	
CUSSL All Canadian Award for Outstanding Average While on a Competitive University Sports Team 2012-2020	Canadian University Synchronized Swimming League (CUSSL)	
McMaster Marauder Scholar 2012 - 2020	McMaster University Athletics Department	
Therese Quigley Award of Excellence for Graduate Student Leadership in Athletics Graduate Student Recognition Awards, McMaster University \$200CAD		

2019	Biology Travel Scholarship	Department of Biology, McMaster University
	<i>\$500CAD</i>	
2019	GSA Travel Assistance Award	School of Graduate Studies, McMaster University
	<i>\$500CAD</i>	
2019	Biology Travel Scholarship	Department of Biology, McMaster University
	<i>\$500CAD</i>	
2018	Therese Quigley Award of Excellence for Graduate Student Leadership in Athletics	
	Graduate Student Recognition Awards, McMaster University	
	<i>\$200CAD</i>	
2018	Evolution and Comparative Genomics Subsidy	International Society for Computational Biology
	<i>\$475USD</i>	
2018	Monica Scarabello Memorial Bursary	McMaster University
	<i>\$1,000CAD</i>	
2018	RTO/ERO Scholarship	Retired Teachers of Ontario (RTO)
	<i>\$1,500CAD</i>	
2017	Monica Scarabello Memorial Bursary	McMaster University
	<i>\$500CAD</i>	
2016	Robert John Morris Graduate Studies Bursary	McMaster University
	<i>\$1,500CAD</i>	
2016	McMaster Synchronized Swimming Club VIP	McMaster University
2016	Graduate Entrance Scholarship	McMaster University
	<i>\$1,500CAD</i>	
2015	Dr. Joachim Sparkuhl Undergraduate Research Award in Genomics, Genetics and Other Biological Sciences	McMaster University
	<i>\$7,680CAD</i>	
2014	Dean's Honor List	McMaster University
2012 - 2015	Undergraduate Entrance Scholarship	McMaster University
	<i>\$750CAD</i>	
2011		

NON-ACADEMIC WORK EXPERIENCE

Tour Guide	Sep 2017 - Present
<i>McMaster University, Hamilton</i>	
Information Service Attendant	May 2015 - Aug 2016
<i>Recreation, City of Markham, Markham</i>	
Education Employee	Jun 2015 - Aug 2016

VOLUNTEER EXPERIENCE

Novice Program Coach <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2019 - 2020
Let's Talk Science <i>McMaster University, Let's Talk Science, Hamilton</i>	2017 - Present
SNAP (Special Needs Assistance Program) <i>McMaster University, Hamilton</i>	2016 - 2019
Vice President <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2014 - 2015, 2018 - 2019
Judge for Biology Undergraduate Symposium <i>Department of Biology, McMaster University, Hamilton, ON</i>	2017 - 2018
President <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2015 - 2018
BGSS (Biology Graduate Society) <i>Department of Biology, McMaster University, Hamilton</i>	2016 - 2017
Meet Manager <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2016
McMaster Arts for Children <i>McMaster University, Hamilton</i>	2014 - 2015
McMaster Athletes Care <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2013 - 2014