

PERSONAL DETAILS

Address Life Sciences Building Room 522
McMaster University
1280 Main Street West
Hamilton
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ACADEMIC QUALIFICATIONS

Ph.D. Student Bacterial Genomics and Bioinformatics Present
McMaster University, Hamilton, ON
Supervisors: Professor G. Brian Golding
Thesis Title: Spatial Patterns of Substitutions in Bacterial Genomes

B.Sc Honors With Distinction Biology and Mathematics 2011-2015
McMaster University, Hamilton, ON
Supervisors: Professor G. Brian Golding
Honors Thesis Title: Substitution Rates in Relation to Position on the Replicons of *Sinorhizobium*

TEACHING

Teaching Assistant Department of Biology, McMaster University
Introduction to Bioinformatics
2015-2019

Teaching Assistant Department of Biology, McMaster University
Genetics
2015-2019

Guest Lecture Department of Biology, McMaster University
Molecular Evolution Course
2018

Teaching Assistant Department of Mathematics and Statistics, McMaster University
Differential Equations
2014

PUBLICATIONS

- [1] 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.*

CONFERENCES/PANEL DISCUSSIONS

Oral Presentation Evolution and Comparative Genomics COSI
Intelligent Systems for Molecular Biology Conference
Chicago 2018

Panellist EngSci Girl
Women In Science and Engineering (WISE)

PROFESSIONAL EXPERIENCE

Undergraduate Research Assistant <i>Supervisor: Dr. G. Brian Golding</i> 2014	Biology, McMaster University, Hamilton, ON
Undergraduate Research Assistant <i>Supervisor: Dr. Usmaan Hameed</i> 2013	Surgical Oncology, University of Toronto, Toronto, ON
Undergraduate Research Assistant <i>Supervisor: Dr. Myla E. Moretti</i> 2012	Motherisk, The Hospital for Sick Children, Toronto, ON

HONORS AND AWARDS

Therese Quigley Award of Excellence for Graduate Student Leadership in Athletics Graduate Student Recognition Awards, McMaster University \$200CAD 2018	
Evolution and Comparative Genomics Subsidy \$475USD 2018	International Society for Computational Biology
Monica Scarabello Memorial Bursary \$1,000CAD 2018	McMaster University
RTO/ERO Scholarship \$1,500CAD 2017	Retired Teachers of Ontario (RTO)
Graduate Scholarship \$691CAD per annum 2015-2018	McMaster University
CUSSL All Canadian Award for Outstanding Average While on a Competitive University Sports Team 2012-2018	Canadian University Synchronized Swimming League (CUSSL)
McMaster Marauder Scholar 2012-2018	McMaster University Athletics Department
Monica Scarabello Memorial Bursary \$500CAD 2016	McMaster University
Robert John Morris Graduate Studies Bursary \$1,500CAD 2016	McMaster University
McMaster Synchronized Swimming Club VIP 2016	McMaster University
Graduate Entrance Scholarship \$1,500CAD 2015	McMaster University
Dr. Joachim Sparkuhl Undergraduate Research Award in Genomics, Genetics and Other Biological Sciences \$7,680CAD 2014	McMaster University

2012-2015

Undergraduate Entrance Scholarship

McMaster University

\$750CAD

2011

CODING AND HIGH PERFORMANCE COMPUTING

Perl

R

tcsh

Command line

 \LaTeX

Python

NON-ACADEMIC WORK EXPERIENCE

Tour Guide

Sep 2017 - Present

*McMaster University, Hamilton***Information Service Attendant**

May 2015 - Aug 2016

*Recreation, City of Markham, Markham***Education Employee**

Jun 2015 - Aug 2016

*Education, Toronto Zoo, Scarborough***Camp Counsellor and Supervisor**

Jun 2013 - Aug 2013

Recreation, City of Markham, Markham

VOLUNTEER EXPERIENCE

Let's Talk Science

2017 - Present

*McMaster University, Let's Talk Science, Hamilton***SNAP (Special Needs Assistance Program)**

2016 - Present

*McMaster University, Hamilton***Vice President**

2014 - 2015, 2018 - 2019

*McMaster Synchronized Swimming Club, McMaster University, Hamilton***Judge for Biology Undergraduate Symposium**

2017-2018

*Department of Biology, McMaster University, Hamilton, ON***President**

2015 - 2018

*McMaster Synchronized Swimming Club, McMaster University, Hamilton***Workshop Leader**

2017

*Plant Molecular Biology Lab Workshop, Department of Biology, McMaster University***Software Carpentry Leader**

2017

McMaster University, Hamilton

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