

PERSONAL DETAILS

Address Life Sciences Building Room 522
McMaster University
1280 Main Street West
Hamilton
Ontario, Canada, L8S 4L8
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ACADEMIC QUALIFICATIONS

Ph.D. Candidate 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
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

Poster Presentation Mutation Rate Evolution
Society for Molecular Biology and Evolution Conference
Manchester, UK 2019

Oral Presentation Evolutionary Biology / Molecular Evolution
Ontario Ecology, Ethology, and Evolution Colloquium

McMaster University, Hamilton, ON 2019

Oral Presentation

Intelligent Systems for Molecular Biology Conference

Chicago, IL 2018

Evolution and Comparative Genomics COSI

Panellist

Women In Science and Engineering (WISE)

McMaster University, Hamilton, ON 2018

EngSci Girl

PROFESSIONAL EXPERIENCE

Undergraduate Research Assistant

Supervisor: Dr. G. Brian Golding

2014

Biology, McMaster University, Hamilton, ON

Undergraduate Research Assistant

Supervisor: Dr. Usmaan Hameed

2013

Surgical Oncology, University of Toronto, Toronto, ON

Undergraduate Research Assistant

Supervisor: Dr. Myla E. Moretti

2012

Motherisk, The Hospital for Sick Children, Toronto, ON

HONORS AND AWARDS

GSA Travel Assistance Award

\$500CAD

2019

School of Graduate Studies, McMaster University

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

Canadian University Synchronized Swimming League (CUSSL)

2012-2019

McMaster Marauder Scholar

McMaster University Athletics Department

2012 - 2019

Monica Scarabello Memorial Bursary

\$500CAD

2016

McMaster University

Robert John Morris Graduate Studies Bursary

\$1,500CAD

2016

McMaster University

McMaster Synchronized Swimming Club VIP

McMaster University

2016

Graduate Entrance Scholarship

McMaster University

\$1,500CAD

2015

Dr. Joachim Sparkuhl Undergraduate Research Award in Genomics, Genetics and Other Biological Sciences

McMaster University

\$7,680CAD

2014

Dean's Honor List

McMaster University

2012 - 2015

Undergraduate Entrance Scholarship

McMaster University

\$750CAD

2011

CODING AND HIGH PERFORMANCE COMPUTING

Perl

R

tcsh

Command line

L^AT_EX

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 <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2015 - 2018
Workshop Leader <i>Plant Molecular Biology Lab Workshop, Department of Biology, McMaster University</i>	2017
Software Carpentry Leader <i>McMaster University, Hamilton</i>	2017
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