

PERSONAL DETAILS

Address Life Sciences Building Room 522
McMaster University
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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-Present

Teaching Assistant Department of Biology, McMaster University

Genetics

2015-Present

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

Panellist

Women In Science and Engineering (WISE)

McMaster University, Hamilton, ON 2018

Evolution and Comparative Genomics COSI

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

Biology Travel Scholarship

\$500CAD

2019

Department of Biology, McMaster University

GSA Travel Assistance Award

\$500CAD

2019

School of Graduate Studies, McMaster University

Biology Travel Scholarship

\$500CAD

2018

Department of Biology, 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	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	

CODING AND HIGH PERFORMANCE COMPUTING

Perl
R
tcsch
Command line
L^AT_EX
Python

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
<i>Education, Toronto Zoo, Scarborough</i>	
Camp Counsellor and Supervisor	Jun 2013 - Aug 2013
<i>Recreation, City of Markham, Markham</i>	

VOLUNTEER EXPERIENCE

Novice Coach	2019 - 2020
<i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	
Let's Talk Science	2017 - Present

McMaster University, Let's Talk Science, Hamilton

SNAP (Special Needs Assistance Program) 2016 - 2019

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) 2016 - 2017

Department of Biology, McMaster University, Hamilton

Meet Manager 2016

McMaster Synchronized Swimming Club, McMaster University, Hamilton

McMaster Arts for Children 2014 - 2015

McMaster University, Hamilton

McMaster Athletes Care 2013 - 2014

McMaster Synchronized Swimming Club, McMaster University, Hamilton