

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

2015-2019

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

Evolution and Comparative Genomics COSI

Intelligent Systems for Molecular Biology Conference

Chicago, IL 2018

Panellist

EngSci Girl

Women In Science and Engineering (WISE)

McMaster University, Hamilton, ON 2018

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

HONORS AND AWARDS

GSA Travel Assistance Award

School of Graduate Studies, McMaster University

\$500CAD

2019

Therese Quigley Award of Excellence for Graduate Student Leadership in Athletics

Graduate Student Recognition Awards, McMaster University

\$200CAD

2018

Evolution and Comparative Genomics Subsidy International Society for Computational Biology

\$475USD

2018

Monica Scarabello Memorial Bursary

McMaster University

\$1,000CAD

2018

RTO/ERO Scholarship

Retired Teachers of Ontario (RTO)

\$1,500CAD

2017

Graduate Scholarship

McMaster University

\$691CAD per annum

2015 - 2018

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

\$500CAD

2016

Robert John Morris Graduate Studies Bursary

McMaster University

\$1,500CAD

2016	McMaster Synchronized Swimming Club VIP	McMaster University
2016	Graduate Entrance Scholarship \$1,500CAD	McMaster University
2015	Dr. Joachim Sparkuhl Undergraduate Research Award in Genomics, Genetics and Other Biological Sciences \$7,680CAD	McMaster University
2014	Dean's Honor List	McMaster University
2012 - 2015	Undergraduate Entrance Scholarship \$750CAD	McMaster University
2011		

CODING AND HIGH PERFORMANCE COMPUTING

Perl
R
tcsh
Command line
L^AT_EX
Python

NON-ACADEMIC WORK EXPERIENCE

Tour Guide <i>McMaster University, Hamilton</i>	Sep 2017 - Present
Information Service Attendant <i>Recreation, City of Markham, Markham</i>	May 2015 - Aug 2016
Education Employee <i>Education, Toronto Zoo, Scarborough</i>	Jun 2015 - Aug 2016
Camp Counsellor and Supervisor <i>Recreation, City of Markham, Markham</i>	Jun 2013 - Aug 2013

VOLUNTEER EXPERIENCE

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 - Present
Vice President <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2014 - 2015, 2018 - 2019
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