

PERSONAL DETAILS

Address Life Sciences Building Room 522
McMaster University
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Hamilton
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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

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

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

\$500CAD

2019

GSA Travel Assistance Award

School of Graduate Studies, McMaster University

\$500CAD

2019

Biology Travel Scholarship

Department of Biology, McMaster University

\$500CAD

2018

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
\$500CAD

McMaster University

2016
Robert John Morris Graduate Studies Bursary
\$1,500CAD

McMaster University

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
tcsch
Command line
L^AT_EX
Python

NON-ACADEMIC WORK EXPERIENCE

Tour Guide
McMaster University, Hamilton

Sep 2017 - Present

Information Service Attendant
Recreation, City of Markham, Markham

May 2015 - Aug 2016

Education Employee
Education, Toronto Zoo, Scarborough

Jun 2015 - Aug 2016

Camp Counsellor and Supervisor
Recreation, City of Markham, Markham

Jun 2013 - Aug 2013

VOLUNTEER EXPERIENCE

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|---|--------------------------|
| Novice 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 |
| 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 |