

PERSONAL DETAILS

Address Life Sciences Building Room 522
McMaster University
1280 Main Street West
Hamilton
Ontario, Canada, L8S 4L8
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Website www.github.com/dlato

ACADEMIC QUALIFICATIONS

Ph.D. Candidate in Computational Biology and Bacterial Genomics Present
McMaster University, Hamilton, ON
Supervisors: Professor G. Brian Golding
Thesis Title: Spatial Patterns of Molecular Trends in Bacterial Genomes

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

CODING AND HIGH PERFORMANCE COMPUTING

Python
R
L^AT_EX
Perl
Unix command line
tcsh
bash
zcsch
GitHub

PUBLICATIONS

- [1] Lato, D. F. and Golding, G. B. (2020). Spatial Patterns of Gene Expression in Bacterial Genomes. *Forthcoming: J Mol Evol.*
- [2] 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.*

TEACHING

Teaching Assistant
Introduction to Bioinformatics
2015-Present

Department of Biology, McMaster University

Teaching Assistant

Department of Biology, McMaster University

Genetics

2015-Present

Guest Lecture

Molecular Evolution

2018

Teaching Assistant

Differential Equations

2014

Department of Biology, McMaster University

Department of Mathematics and Statistics, McMaster University

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

Dr. Edna Guest Award

Annual Athletic Awards, McMaster University

\$1,000CAD

2020

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 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 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

NON-ACADEMIC WORK EXPERIENCE

Tour Guide Sep 2017 - Present
McMaster University, Hamilton

VOLUNTEER EXPERIENCE

Novice Program 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