

PERSONAL DETAILS

Mobile	(416) 806-3264	GitHub	www.github.com/dlato
E-Mail	latodf@mcmaster.ca	LinkedIn	daniella-lato-672729163

EDUCATION

**Doctor of Philosophy Candidate in
Computational Biology and Bacterial Genomics** 2015-Present
McMaster University, Hamilton, ON

Supervisors: Professor G. Brian Golding
Thesis Title: Spatial Patterns of Molecular Trends in Bacterial Genomes

Honours Bachelor of Science in 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	L ^A T _E X	tcsh
BioPython	Perl	bash
R	GitHub	bash
Shiny	Unix command line	zcsch

PUBLICATIONS

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

PROFESSIONAL EXPERIENCE

Undergraduate Research Assistant 2014
Biology, McMaster University, Hamilton, ON

Supervisor: Dr. G. Brian Golding

Undergraduate Research Assistant 2013
Surgical Oncology, University of Toronto, Toronto, ON

Supervisor: Dr. Usmaan Hameed

Undergraduate Research Assistant 2012
Motherisk, The Hospital for Sick Children, Toronto, ON

Supervisor: Dr. Myla E. Moretti

TEACHING

Teaching Assistant <i>Department of Biology, McMaster University</i> Introduction to Bioinformatics	2015-Present
Teaching Assistant <i>Department of Biology, McMaster University</i> Genetics	2015-Present
Guest Lecture <i>Department of Biology, McMaster University</i> Molecular Evolution	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
Teaching Assistant <i>Department of Mathematics and Statistics, McMaster University</i> Differential Equations	2014

HONORS AND AWARDS

Dr. Edna Guest Award <i>Annual Athletic Awards, McMaster University</i> \$1,000 CAD	2020
All Canadian Award for Outstanding Average While on a Competitive University Sports Team <i>Canadian University Synchronized Swimming League (CUSSL)</i>	2012-2020
McMaster Marauder Scholar <i>McMaster University Athletics Department</i>	2012 - 2020
Therese Quigley Award of Excellence for Graduate Student Leadership in Athletics <i>Graduate Student Recognition Awards, McMaster University</i> \$200 CAD	2018-2019
Biology Travel Scholarship <i>Department of Biology, McMaster University</i> \$500 CAD	2018-2019
GSA Travel Assistance Award <i>School of Graduate Studies, McMaster University</i> \$500 CAD	2019
Evolution and Comparative Genomics Subsidy <i>International Society for Computational Biology</i> \$475 USD	2018
Monica Scarabello Memorial Bursary <i>McMaster University</i> \$1,000 CAD	2016 and 2018
RTO/ERO Scholarship <i>Retired Teachers of Ontario (RTO)</i> \$1,500 CAD	2017
Robert John Morris Graduate Studies Bursary	2016

McMaster University

\$1,500 CAD

McMaster Synchronized Swimming Club VIP

2016

McMaster University

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

2014

McMaster University

\$7,680 CAD

CONFERENCES/PANEL DISCUSSIONS

Poster Presentation

Manchester, UK 2019

Mutation Rate Evolution

Society for Molecular Biology and Evolution Conference

Oral Presentation

McMaster University, Hamilton, ON 2019

Evolutionary Biology / Molecular Evolution

Ontario Ecology, Ethology, and Evolution Colloquium

Oral Presentation

Chicago, IL 2018

Evolution and Comparative Genomics COSI

Intelligent Systems for Molecular Biology Conference

Panellist

EngSci Girl

McMaster University, Hamilton, ON 2018

Women In Science and Engineering (WISE)

VOLUNTEER EXPERIENCE

Let's Talk Science

2017 - Present

McMaster University, Let's Talk Science, Hamilton

Novice Program Coach

2019 - 2020

McMaster Synchronized Swimming Club, McMaster University, 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

BGSS (Biology Graduate Student 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

OTHER WORK EXPERIENCE

Tour Guide

Sep 2017 - Present

McMaster University, Hamilton