

## PERSONAL DETAILS

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Mobile	(416) 806-3264	GitHub	<a href="https://www.github.com/dlato">www.github.com/dlato</a>
E-Mail	<a href="mailto:latodf@mcmaster.ca">latodf@mcmaster.ca</a>	LinkedIn	<a href="https://www.linkedin.com/in/daniella-lato-672729163">daniella-lato-672729163</a>

## EDUCATION

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**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

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Python	L <sup>A</sup> T <sub>E</sub> X	tcsh
BioPython	Perl	bash
R	GitHub	
Shiny	Unix command line	zcsch

## PUBLICATIONS

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- [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

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**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

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<b>Teaching Assistant</b> <i>Department of Biology, McMaster University</i> Introduction to Bioinformatics	2015-Present
<b>Teaching Assistant</b> <i>Department of Biology, McMaster University</i> Genetics	2015-Present
<b>Guest Lecture</b> <i>Department of Biology, McMaster University</i> Molecular Evolution	2018
<b>Workshop Leader</b> <i>Plant Molecular Biology Lab Workshop, Department of Biology, McMaster University</i>	2017
<b>Software Carpentry Leader</b> <i>McMaster University, Hamilton</i>	2017
<b>Teaching Assistant</b> <i>Department of Mathematics and Statistics, McMaster University</i> Differential Equations	2014

## HONORS AND AWARDS

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

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**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**

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**Let's Talk Science**

2017 - Present

*McMaster University, Let's Talk Science, Hamilton*

Trained and enthusiastic volunteers pass their passion for science, technology, engineering, and math (STEM) on to Canada's future citizens.

**Novice Program Coach**

2019 - 2020

*McMaster Synchronized Swimming Club, McMaster University, Hamilton*

Independently run coaching duties including assist swimmers in establishing individual goals and prepare them for competition, develop practice, lesson plans and routines appropriate to a variety of swimming levels.

**SNAP (Special Needs Assistance Program)**

2016 - 2019

*McMaster University, Hamilton*

Assist all McMaster students, staff, faculty, and community members who have special needs and require physical assistance to complete a workout or activity.

**Vice President**

2014 - 2015, 2018 - 2019

*McMaster Synchronized Swimming Club, McMaster University, Hamilton*

Assist President in organizing everything related to competitions, practices, uniforms, and participation fees.

**Judge for Biology Undergraduate Symposium (BUS)**

2017 - 2018

*Department of Biology, McMaster University, Hamilton, ON*

BUS is the capstone experience for final year Thesis and Project students who completed a year of scientific research with professors in the biology department and other departments at McMaster.

**President**

2015 - 2018

*McMaster Synchronized Swimming Club, McMaster University, Hamilton*

Responsible for organizing everything related to competitions, practices, uniforms, and participation fees.

**BGSS (Biology Graduate Student Society)**

2016 - 2017

*Department of Biology, McMaster University, Hamilton*

Assisted with planning, organizing, and running social and academic events for the Biology students at McMaster.

**Meet Manager**

2016

*McMaster Synchronized Swimming Club, McMaster University, Hamilton*

Organized and hosted the Canadian University Synchronized Swimming League National Competition at McMaster University. There was a total of 22 Universities and 450 athletes and coaches from all over Canada in attendance.

**McMaster Arts for Children**

2014 - 2015

*McMaster University, Hamilton*

Promote the arts and inspire creativity among children through facilitating arts and crafts programs that teach appreciation for and expose children to various aspects of the arts in the Hamilton Community.

**McMaster Athletes Care**

2013 - 2014

*McMaster Synchronized Swimming Club, McMaster University, Hamilton*

Volunteers focus on local community development and participate in sport activities at local Youth Centers in the Hamilton Community.

## **OTHER WORK EXPERIENCE**

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**Tour Guide**

Sep 2017 - Present

*McMaster University, Hamilton*