

## PERSONAL DETAILS

---

*Address* Life Sciences Building Room 522  
McMaster University  
1280 Main Street West  
Hamilton  
Ontario, Canada, L8S 4L8  
*Mobile* (416) 806-3264  
*E-Mail* [latodf@mcmaster.ca](mailto:latodf@mcmaster.ca)  
*Website* [www.github.com/dlato](http://www.github.com/dlato)

## 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

---

**Biology Travel Scholarship**

Department of Biology, McMaster University

*\$500CAD*

2019

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

## **CODING AND HIGH PERFORMANCE COMPUTING**

---

Perl  
R  
tclsh  
Command line  
L<sup>A</sup>T<sub>E</sub>X  
Python

## **NON-ACADEMIC WORK EXPERIENCE**

---

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

## **VOLUNTEER EXPERIENCE**

---

<b>Novice Coach</b> <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2019 - 2020
<b>Let's Talk Science</b> <i>McMaster University, Let's Talk Science, Hamilton</i>	2017 - Present
<b>SNAP (Special Needs Assistance Program)</b>	2016 - 2019

<b>Vice President</b> <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2014 - 2015, 2018 - 2019
<b>Judge for Biology Undergraduate Symposium</b> <i>Department of Biology, McMaster University, Hamilton, ON</i>	2017 - 2018
<b>President</b> <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2015 - 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>BGSS (Biology Graduate Society)</b> <i>Department of Biology, McMaster University, Hamilton</i>	2016 - 2017
<b>Meet Manager</b> <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2016
<b>McMaster Arts for Children</b> <i>McMaster University, Hamilton</i>	2014 - 2015
<b>McMaster Athletes Care</b> <i>McMaster Synchronized Swimming Club, McMaster University, Hamilton</i>	2013 - 2014