

test

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

## HONORS AND AWARDS

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

**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**

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**Tour Guide**

Sep 2017 - Present

*McMaster University, Hamilton*