Daniella F. Lato

PERSONAL DETAILS

(416) 806-3264 www.github.com/dlato GitHubMobileE-Mail latodf@mcmaster.ca LinkedIndaniella-lato-672729163

EDUCATION

Ph.D. 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

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 $\mathbf{E}\mathbf{T}_{\mathbf{E}}\mathbf{X}$ tcsh **BioPython** Perl bash GitHub \mathbf{R} Shiny Unix command line zcsh

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 costeffectiveness analysis of maternal CYP2D6 genetic testing to guide treatment for postpartum pain and avert infant adverse events. Pharmacogenomics J.

PROFESSIONAL EXPERIENCE

Undergraduate Research Assistant

Biology, McMaster University, Hamilton, ON

Supervisor: Dr. G. Brian Golding

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

TEACHING

McMaster University \$500 CAD

Department of Biology, McMaster University Teaching Assistant Introduction to Bioinformatics 2015-Present Teaching Assistant Department of Biology, McMaster University Genetics2015-Present Guest Lecture Department of Biology, McMaster University Molecular Evolution 2018 Workshop Leader 2017 Plant Molecular Biology Lab Workshop, Department of Biology, McMaster University Software Carpentry Leader 2017 McMaster University, Hamilton Teaching Assistant Department of Mathematics and Statistics, McMaster University Differential Equations 2014 **HONORS AND AWARDS** Dr. Edna Guest Award 2020 Annual Athletic Awards, McMaster University \$1,000 CAD All Canadian Award for Outstanding Average While on a Competitive University Sports Team 2012-2020 Canadian University Synchronized Swimming League (CUSSL) McMaster Marauder Scholar 2012 - 2020 McMaster University Athletics Department Therese Quigley Award of Excellence for Graduate Student Leadership in Athletics 2018-2019 Graduate Student Recognition Awards, McMaster University \$200 CAD Biology Travel Scholarship 2018-2019 Department of Biology, McMaster University \$500 CAD **GSA** Travel Assistance Award 2019 School of Graduate Studies, McMaster University \$500 CAD **Evolution and Comparative Genomics Subsidy** 2018 International Society for Computational Biology \$475 USD Monica Scarabello Memorial Bursary 2018 McMaster University \$1,000 CAD RTO/ERO Scholarship 2017 Retired Teachers of Ontario (RTO) \$1,500 CAD Monica Scarabello Memorial Bursary 2016

McMaster University Dr. Joachim Sparkuhl Undergraduate Research Award in Genomics, Genetics and Other Biological Sciences CONFERENCES/PANEL DISCUSSIONS Poster Presentation Society for Molecular Biology and Evolution Conference Manchuster, UK 2019 Oral Presentation Ontario Ecology, Ethology, and Evolution Colloquium McMaster University, Hamilton Intelligent Systems for Molecular Biology Conference Chicago, IL 2018 Panellist Women In Science and Engineering (WISE) McMaster University, Hamilton, ON 2018 VOLUNTEER EXPERIENCE Let's Talk Science McMaster University, Let's Talk Science, Hamilton Novice Program Coach McMaster University, Hamilton McMaster University, Hamilton McMaster University, Hamilton Vice President McMaster University, Hamilton	Robert John Morris Graduate Studies Bursary McMaster University	2016
In Genomics, Genetics and Other Biological Sciences McMaster University \$7.680 CAD CONFERENCES/PANEL DISCUSSIONS Poster Presentation Nutation Rate Evolution Society for Molecular Biology and Evolution Conference Manchester, UK 2019 Oral Presentation Ontario Ecology, Ethology, and Evolution Colloquium McMaster University, Hamilton, ON 2019 Oral Presentation Ontario Ecology, Ethology, and Evolution Colloquium McMaster University, Hamilton, ON 2019 Oral Presentation Intelligent Systems for Molecular Biology Conference Chicago, IL 2018 Panellist Pomen In Science and Engineering (WISE) McMaster University, Hamilton, ON 2018 VOLUNTEER EXPERIENCE Let's Talk Science McMaster University, Let's Talk Science, Hamilton Novice Program Coach McMaster University, Let's Talk Science, Hamilton Novice Program Coach McMaster University, Hamilton Vice President McMaster University, Hamilton Vice President McMaster University, Hamilton Vice President McMaster Synchronized Swimming Club, McMaster University, Hamilton Judge for Biology Undergraduate Symposium Department of Biology, McMaster University, Hamilton President McMaster Synchronized Swimming Club, McMaster University, Hamilton BGSS (Biology Graduate Student Society) Department of Biology, McMaster University, Hamilton Meet Manager McMaster Synchronized Swimming Club, McMaster University, Hamilton McMaster Synchronized Swimming Club, McMaster University, Hamilton Meet Manager McMaster Synchronized Swimming Club, McMaster University, Hamilton		2016
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		2014 - 2015

OTHER WORK EXPERIENCE

Tour Guide Sep 2017 - Present *McMaster University, Hamilton*