

<b>EDUCATION</b>	<b>BSc. Quantitative Biology, Minor Computer Science</b> McGill University, Montreal, Canada <i>Teaching Roles:</i> Undergraduate Teaching Assistant for Biophysics (2015-2017) <i>Relevant Courses:</i> Applied Machine Learning, Artificial Intelligence, Algorithm Design, Statistics	Expected May 2017
<b>EXPERIENCE</b>	<b>Computational Oncology Research Assistant</b> Gravel Lab, McGill University <ul style="list-style-type: none"><li>Developed a theoretical cancer model with 7,000+ lines of Python with eventual use of a C++ model to investigate tumor heterogeneity.</li><li>Implemented pipelines to run batch data analysis and used high performance computing clusters to execute.</li><li>Poster prize and monetary awards from Canadian government (See Awards.)</li></ul> <b>Co-Founder, Scientific Lead</b> QuantiScience <ul style="list-style-type: none"><li>Engineered an algorithm to extract heart rate variability and stress index from data obtained by the Fitbit Charge HR.</li><li>Launched product to 3 beta testers and demoed in San Francisco as part of the top 10% of the AngelHack HACKcelerator.</li></ul> <b>Software Developer Intern</b> Citation.io, Montreal. <ul style="list-style-type: none"><li>Developed, documented and delivered a front-end minimum viable product for an online reference management software using AngularJS and D3.js.</li></ul>	Jan 2015 - Present  June 2015 - Dec 2015  Summer 2014
<b>SKILLS</b>	<b>Languages:</b> Python, Java, JavaScript, C/C++, bash <b>Scientific Languages:</b> SciPy, MATLAB, R <b>Machine Learning Libraries:</b> SciKit-learn, Lasagne, Keras	
<b>AWARDS AND HACKATHONS</b>	<b>Computational Biology Summer Studentship Award</b> Canadian Institutes of Health Research <b>1st Place, Mathematical and Computational Sciences</b> McGill Undergraduate Research Conference <b>Tomlinson Engagement Award for Mentoring</b> , McGill University <b>1st Place</b> , Microsoft BrunchHack: Machine Learning <b>1st Place</b> , AngelHack Montreal <b>2nd Place</b> , Montreal Expedia Hackathon <b>Natural Language Processing (NLP) Prize</b> , Big Data Week Hackathon	2015 and 2016  2015  2016 and 2017 2015 2015 2015 2015
<b>VOLUNTEER POSITIONS</b>	<b>Founding Member and Co-Vice-President Events</b> McGill Integrative Bioscience Students Society <ul style="list-style-type: none"><li>Launched a club for interdisciplinary biologists, successfully partnering with Google and Microsoft. Organized 5 events with an average of 80+ people per event.</li></ul>	2015 - Present
<b>SELECTED PROJECTS</b> (full portfolio at <a href="http://www.zafarali.me">www.zafarali.me</a> )	<b>MinervaBot</b> <ul style="list-style-type: none"><li>Designed and launched a Facebook Messenger bot to help students find information about courses and buildings on McGill campus.</li><li>Implemented machine learning classifiers, information retrieval and clever REGEX-based algorithms resulting in &gt; 80% bot success rate.</li></ul> <b>Towards electroencephalography-based prosthetics</b> COMP 598: Applied Machine Learning [Grade: A] <ul style="list-style-type: none"><li>Compared transfer learning approaches versus personalized learning of neural networks, logistic regression and support vector machines as software for 3D printed arms.</li></ul>	April 2016 - Present  Sept 2015 - Dec 2015

<b>CONFERENCES AND TALKS</b>	<b>Computational Modeling and Inference of Genetic Diversity in Cancer</b>	Functional Ge-
	nomics Group, Goodman Cancer Research Centre, Montreal	2016
	<b>Predicting with Data</b>	Osmos Academy
		2016
	<b>Mathematical Modelling of Infectious Disease Spread</b>	Mathematical Bioscience Institute,
	Ohio State University	2016
	<b>Undergraduate Research Conference</b>	McGill University
		2015