

EDUCATION	MSc. Computer Science , McGill University and Mila Supervised by Dr. Doina Precup and Dr. Simon Gravel September 2017 - May 2019
	BSc. Quantitative Biology, Minor Computer Science , McGill University First Class Honours 2017
TOOLS	Software: Python, Tensorflow, Pytorch, Git Open Source Contributions: Tensorflow, embedKB, MLJS Matrix, AttentionRNN, Keras
EXPERIENCE	Student Researcher Google Brain, Montreal Canada June 2018 - Nov 2018 <ul style="list-style-type: none"> Investigating optimization problems in reinforcement learning. Led to a contributed research talk at the Deep Learning Summer School.
	Deep Learning Research Associate Datalogue, Montreal Canada April 2017 - Nov 2017 <ul style="list-style-type: none"> Researched, implemented and shipped production-level deep conditional random fields for entity recognition, convolution neural networks for classification and attention-based recurrent neural networks for machine translation. Improved accuracy of main product from 90% to 94% with a 13× reduction in parameters.
	Computational Oncology Research Assistant Gravel Lab, McGill University Jan 2015 - April 2017 <ul style="list-style-type: none"> Used theoretical cancer models to investigate genetic heterogeneity. Led to a publication.
	Co-Founder, Scientific Lead QuantiScience, Montreal June 2015 - Dec 2015 <ul style="list-style-type: none"> Engineered an algorithm to extract heart rate variability and infer mental stress from data obtained by the Fitbit Charge HR. Launched product to 3 beta testers and demoed in San Francisco as part of the top 10% of the AngelHack HACKcelerator.
	PUBLICATIONS + WRITING (full list at Google Scholar) Bachman P., Islam R., Sordoni A., Ahmed Z. (2018) <i>VFunc: a Deep Generative Model for Functions</i> , ICML Workshop on Prediction and Generative Modeling in Reinforcement Learning Ahmed Z. and Gravel S (2018). <i>Genetic Diversity in Circulating Tumor Cells</i> , Molecular Biology and Evolution Ahmed Z. (2018). <i>How to Visualize Your Recurrent Neural Network with Attention in Keras</i> , Datalogue Technical Blog [67k views and 1.6k claps]
AWARDS	Canada Graduate Scholarship, CIHR 2017-2018 Industry Experience Award, NSERC 2017 Computational Biology Summer Award, CIHR 2015 & 2016 Tomlinson Engagement Award for Mentoring 2016 & 2017
SELECTED TALKS	What Makes a Good Policy Optimization Algorithm? CIFAR Deep Learning and Reinforcement Learning Summer School 2018 Introduction to the Attention Mechanism , Montreal Deep Learning Meetup 2017 Predicting with Data , Osmos Academy 2016
VOLUNTEER POSITIONS	Founding Member and Co-Vice-President Events 2015 - 2017 McGill Integrative Bioscience Students Society <ul style="list-style-type: none"> Launched a club for interdisciplinary biologists, successfully partnering with Google and Microsoft. Organized 5 events with an average of 80+ people per event.
SELECTED PROJECTS (full portfolio at www.zafarali.me)	Towards electroencephalography-based prosthetics Sept 2015 - Dec 2015 COMP 598: Applied Machine Learning [Grade: A] <ul style="list-style-type: none"> Compared transfer learning approaches versus personalized learning of neural networks, logistic regression and support vector machines as software for 3D printed arms.