

EDUCATION	MSc. Computer Science , McGill University	September 2017 - present
	Supervised by Dr. Doina Precup and Dr. Simon Gravel	
	BSc. Quantitative Biology, Minor Computer Science , McGill University	2017
	First Class Honours, GPA: 3.80/4.00	
TOOLS	Software: Python, Tensorflow, Pytorch, Git	
	Open Source Contributions: embedKB, MLJS Matrix, AttentionRNN, Keras, Faker	
EXPERIENCE	Software Developer Intern	June 2018 - present
	Google Brain, Montreal Canada	
	<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	April 2017 - Nov 2017
	Datalogue, Montreal Canada	
	<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	Jan 2015 - April 2017
	Gravel Lab, McGill University	
	<ul style="list-style-type: none"> Used theoretical cancer models to investigate genetic heterogeneity. Led to a publication. 	
	Co-Founder, Scientific Lead	June 2015 - Dec 2015
	QuantiScience, Montreal	
	<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	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	Towards electroencephalography-based prosthetics	Sept 2015 - Dec 2015
	COMP 598: Applied Machine Learning [Grade: A]	
(full portfolio at www.zafarali.me)	<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. 	