

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	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
	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 (full list at Google Scholar)	Ahmed Z. , Le Roux N., Norouzi M., Schuurmans D. (2018) <i>Understanding the impact of entropy on policy optimization</i> , Preprint 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 Industry Experience Award, NSERC Computational Biology Summer Award, CIHR Tomlinson Engagement Award for Mentoring	2017-2018 2017 2015 & 2016 2016 & 2017
SELECTED TALKS	What Makes a Good Policy Optimization Algorithm? CIFAR DLRLSS Introduction to the Attention Mechanism , Montreal Deep Learning Meetup Predicting with Data , Osmos Academy	2018 2017 2016
VOLUNTEER POSITIONS	Founding Member and Co-Vice-President Events McGill Integrative Bioscience Students Society	2015 - 2017
	<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)	MinervaBot	April 2016 - December 2017
	<ul style="list-style-type: none"> • Designed and launched a Facebook Messenger bot to help students find information about courses and buildings on McGill campus. • Implemented machine learning classifiers, information retrieval mechanisms and clever REGEX-based algorithms resulting in > 80% bot success rate. 	