Jonathan Lorraine

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Professional Experience

2016-Current	Data Scientist, Electronica AI Responsible for designing, optimizing, validating, and executing trading strategies. Used ma- chine learning techniques to find strategy parameters which perform well on unseen data, lead- ing to several funds that are actively trading. Internship component of the MScAC program, with an academic advisor of Professor David Duvenaud and industry advisor of Aristotle An- drulakis.
2016-2017	Teaching Assistant, University Of Toronto Responsible for grading and leading tutorials in Mathematical Expressions and Reasoning for Computer Science.
2014-2016	Research Assistant, University Of Toronto Worked with Statistics and Operations Research professor Dmitry Krass to generate computa- tional results for publications.
2013-2014	Mobile Application Developer, First Class Education Software Developed an application for teaching university level biology on Android and iOS.
	Education
2012-2016	B.Sc., University of Toronto Specialist in Computer Science, major in Mathematics, and a minor in Economics. Graduated with high distinction.
2016-2017	M.Sc. in Applied Computing, University of Toronto Specialist in Data Science. Academic advisor was Professor David Duvenaud and industry advisor was Aristotle Andrulakis.
	Publications
2017	Lorraine, J., Duvenaud, D. Stochastic Hyperparameter Optimization through Hypernets Designed an algorithm to learn a differentiable loss function for hyperparameters, which can scale to thousands of dimensions. Accepted at NIPS 2017 meta-learning workshop, and sub- mitted as an ICML 2018 conference paper.
	Other Research Experience

	Designed an algorithm for finding a point to add a Voronoi diagram, with a Voronoi cell that has maximal area. Work was completed as a research internship and supported by NSERC.
2016	Aboolian, R., Berman, O., Krass, D. Optimizing Facility Location and Design Responsible for implementing an approximation scheme to a non-linear concave knapsack problem. Work was completed as a research internship.
2015	Krass, D., Berman, O., Kalcsics, J. On Covering Location Problems on Networks with Edge Demand Responsible for finding numerical solutions to a maximum covering problem on a network with edge-based demand. Work was completed as a research internship.
	Grants & Awards
2017	MITACS Accelerate Research Grant: \$30,000

- NSERC Undergraduate Research Award: \$4,500 GE-STAR Award: \$4,500 2014
- 2012-2013

Last updated: March 2, 2018