Chris Cremer

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Experience	
Machine Learning Engineer - Cohere	Toronto, ON Fall 2020 - Present
Machine Learning Intern - Facebook Reality Labs Worked on codec avatars. Worked remotely from Toronto	Pittsburgh, PA Summer 2020
Machine Learning Intern - Microsoft Research Worked on joint generative models of images and text. Advisor: Nate Kushman	Cambridge, UK Summer 2018
Education	
University of Toronto PhD - Department of Computer Science, Vector Institute Advisors: David Duvenaud and Quaid Morris	2016 - 2020
University of Toronto MSc - Department of Computer Science Advisor: Quaid Morris	2014 - 2016
McGill University BSc - Major Anatomy and Cell Biology, Minor Computer Science	2010 - 2014

Research Papers

Cremer, C. & Kushman, N. On the Importance of Learning Aggregate Posteriors in Multimodal Variational Autoencoders. AABI 2018.

Cremer, C., Li, X. & Duvenaud, D. Inference Suboptimality in Variational Autoencoders. ICML 2018.

Cremer, C., Morris, Q. & Duvenaud, D. Reinterpreting Importance-Weighted Autoencoders. ICLR Workshop 2017.

Conference Reviewing and Organization

Co-organizer - ICML Workshop on Invertible Neural Nets and Normalizing Flows (INNF+)	2020
Reviewer - Conference on Neural Information Processing Systems (NeurIPS) (top 50% reviewer)	2019
Co-organizer - ICML Workshop on Invertible Neural Nets and Normalizing Flows (INNF)	2019
Reviewer - International Conference on Learning Representations (ICLR)	2019
Reviewer - Symposium on Advances in Approximate Bayesian Inference (AABI)	2018
Reviewer - Journal of Machine Learning (JMLR)	2018

Talks and Posters

Inference Suboptimality in Variational Autoencoders. Talk given at the International Conference on Machine Learning. 2018

Deconvolving gene expression profiles for tumor populations with prior frequency information. Genome Informatics Poster. 2015

Classification of bladder cancer grade and subtype identification. Bladder Cancer Symposium. Mount Sinai Hospital, Toronto. 2014

Awards and Grants

Ontario Graduate Scholarship	Fall 2017
Cecil Yip Doctoral Research Award	Fall 2016
SGS Conference Grant	Fall 2015

Teaching Assistant Positions

Learning to Search (CSC2547)	Fall 2019
Intro to Machine Learning (CSC411/2515)	Fall 2015,2017,2018
Statistical Methods for Machine Learning (STA414/2104)	Winter 2017
Intro to Artificial Intelligence (CSC384)	Fall 2016
Intro to Computer Science (CSC148)	Summer 2016
Intro to Computer Programming (CSC108)	Fall 2014

Research Lab Internships

Networks and Systems Lab Altered the firmware of wireless adapters to achieve lower delay in large dense networks. Advisor: Peter Marbach	University of Toronto Summer 2014
McPherson Lab	McGill University
Used cell biology techniques to study proteins involved in cancer.	Summer 2013
Sjostrom Lab	McGill University
Analyzed neuronal synaptic plasticity through the reconstruction of neocortical circuits.	Summer 2012