

Jean Harb

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Education

McGill University

Ph.D., Computer Science, 2016-Present
Supervisor: Doina Precup
Fields: Machine Learning, Reinforcement Learning, Deep Learning

McGill University

M.S., Computer Science, 2014-2016
Supervisor: Doina Precup
GPA: 3.88/4.0

HEC Montreal

B.B.A., Double Major in Finance and Economics, 2008-2013
GPA: 3.51/4.3

Master's Thesis

Learning Options in Deep Reinforcement Learning

Developed and applied the Option-Critic framework for the Atari 2600 environment. This allows a reinforcement learning agent to automatically learn temporally extended actions, while still maximizing the expected return.

Publications

The Option-Critic Architecture

Pierre-Luc Bacon, Jean Harb, Doina Precup
Thirty-First AAAI Conference on Artificial Intelligence (AAAI), 2017
Outstanding Student Paper Award

Investigating Recurrence and Eligibility Traces in Deep Q-Networks

Jean Harb, Doina Precup
NIPS 2016, Deep Reinforcement Learning Workshop

Work Experience

Research Intern

OpenAI, Spring 2017
Will be doing research on Deep Reinforcement Learning algorithms.

Research Intern

Maluuba (now Microsoft), 2015
Created a deep learning model using recurrent neural networks to automate the learning process of a personal virtual assistant. This improved natural language understanding capabilities and allowed for easier domain growth.

Awards

Grad Excellence Award, McGill University

Award for new Ph.D. students with outstanding performance during their Master's degree.

Languages and Skills

French (native), English (fluent)
Python, Theano, Tensorflow, Java