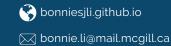# Bonnie S. Li

Student Researcher, Innovator, Engineer
building the future of Artificial Intelligence with Canada's best research labs.

bonniesjli.github.io
bonnie.li@mail.mcgill.ca
in/bonnie-li-956093143
647 545 3811

SKILLS

Languages:
Python
Java,
C
C++
R
JavaScript

AI/Machine Learning:
PyTorch, Tensorflow,
OpenAI Gym, Unity ML
AWS, GCP,
HPC Cluster OS (Slurm)

Full Stack:
Django, Flask
React.js, HTML/Bootstrap,
SQL, MongoDB,
Unix/Linux

Research:
Reinforcement Learning,
Representation Learning,
Generative Models
Meta Learning
Imitation Learning

AWARDS

30 Under 30 Rising Stars in AI
ReWork, 2019

EDUCATION

McGill University

Mathematics and
Computer Science

2019 - 2022

cumulative GPA: 4.00/4.00

WORK EXPERIENCES

Mila - Quebec Artificial Intelligence Institute

Researcher with Prof. Joelle Pineau

· Building novel AI agents that plan future actions through latent imagination (model based reinforcement learning)
· Experimenting the generalization and adaption of inference based meta learning

Vector Institute & University of Toronto

Research Intern with Prof. Jimmy Ba

· Developing novel meta learning algorithms for exploration in reinforcement learning
· Created new one shot imitation learning algorithms, co-authored research paper submitted to ICLR 2020

Mila - Quebec Artificial Intelligence Institute

Research Intern with Prof. Yoshua Bengio

· Developing novel exploration algorithms in reinforcement learning.
· Implemented various state of the art algorithms in deep reinforcement learning

PUBLICATIONS

One Demonstration Imitation Learning
(Preprint, submitted to ICLR 2020)
Proposing a novel approach to imitation learning via unsupervised exploration and self-imitation objectives that is capable of inference from a single expert demonstration.

INVITED TALKS

Can we Learn to Learn,
Deep Learning Summit, San Francisco. Jan. 2019

Towards Learning to Explore: Meta Exploration,
BMO AI, Toronto. Aug. 2019

Machine Learning for Algorithmic Trading
- McKinsey & Company, Toronto, Apr. 2018
- Microsoft Research, Montreal, May. 2018

PROJECTS

Cryptonian - Neural Trading Bot
· Developed back-testing platform for trading cryptocurrency and RL trading algorithms in python with a javascript front-end.
· Awards: Most Innovative Start-Up, SAGE Canada 2018

PARC: a Learning Agents codebase
A exceptionally clean codebase for reinforcemement learning using pytorch, designed for efficiency, simplicity, and modularity, currently used for multiple research projects.