

Martin Klissarov

<https://mklissa.github.io> | Google Scholar | martin.klissarov@mail.mcgill.ca

EDUCATION

MCGILL UNIVERSITY

PHD IN COMPUTER SCIENCE

2020 - now

Supervisor: Prof. Doina Precup &
Prof. Marlos C. Machado

Cum. GPA: 4.0 / 4.0

MSc IN COMPUTER SCIENCE

2018 - 2020

Supervisor: Prof. Doina Precup

Cum. GPA: 4.0 / 4.0

POLYTECHNIQUE MONTRÉAL

BEng IN ELECTRICAL ENGINEERING

2014 - 2018

Cum. GPA: 3.9 / 4.0

ACADEMIC SERVICE

CONFERENCE REVIEWER

- NeurIPS : [2020, 2021* | 2022* | 2023]
- ICLR : [2022* | 2023 | 2024]
- ICML : [2021 | 2022 | 2023 | 2024]
- AAAI : [2020 | 2021 | 2022]
- RLC : [2024]

* Outstanding/Highlighted Reviewer

CONFERENCE ORGANIZER

- CoLLAs : [2022]

WORKSHOP ORGANIZER

- TAFM @ RLC : [2024]

SKILLS

SOFTWARE

JAX • PyTorch • TensorFlow •
Numpy • Python • Bash

LANGUAGES

French • English • Bulgarian (native) •
Mandarin (elementary)

CITIZENSHIPS

Canadian

Bulgarian (EU)

RESEARCH EXPERIENCE

APPLE MLR RESEARCH SCIENTIST INTERN

SUPERVISORS: DEVON HJELM & ALEX TOSHEV

March 2024 - Now

META AI RESEARCH SCIENTIST INTERN

SUPERVISORS: AMY ZHANG & MIKAEL HENAFF

June 2023 - Nov 2023

DEEPMIND RESEARCH SCIENTIST INTERN

SUPERVISOR: MARLOS C. MACHADO

July 2022 - Nov 2022

PUBLICATIONS

- ◇ Motif: Intrinsic Motivation from Artificial Intelligence Feedback
Martin Klissarov*, Pierluca D'oro*, Shagun Sodhani, Roberta Raileanu, Pierre-Luc Bacon, Pascal Vincent, Amy Zhang and Mikael Henaff, *ICLR*, 2024
- ◇ Code as Reward: Empowering Reinforcement Learning with VLMs
David Venuto, Sami Nur Islam, **Martin Klissarov**, Doina Precup, Sherry Yang and Ankit Anand, *arXiv*, 2024
- ◇ Deep Laplacian-based Options for Temporally-Extended Exploration
Martin Klissarov and Marlos C. Machado. *ICML*, 2023
- ◇ Adaptive Interest for Emphatic Reinforcement Learning
Martin Klissarov, Rasool Fakoor, Jonas Mueller, Kavosh Asadi, Taesup Kim and Alex Smola, *NeurIPS*, 2022
- ◇ Flexible Option Learning
Martin Klissarov and Doina Precup, *NeurIPS*, 2021 (**Spotlight**)
- ◇ Reward Propagation Using Graph Convolutional Networks
Martin Klissarov and Doina Precup, *NeurIPS*, 2020 (**Spotlight**)
- ◇ Options of Interest: Temporal Abstraction with Interest Functions
Khimya Ketharpal, **Martin Klissarov**, Maxime Chevalier-Boisvert, Pierre-Luc Bacon and Doina Precup, *AAAI*, 2020
- ◇ Variational State Encoding as Insintric Motivation in RL
Martin Klissarov, Riashat Islam, Khimya Khetarpal and Doina Precup, *RLDM*, 2019
- ◇ When Waiting is not an Option: Learning Options with a Deliberation Cost
Jean Harb, Pierre-Luc Bacon, **Martin Klissarov** and Doina Precup, *AAAI*, 2018
- ◇ Learning Options End-to-End for Continuous Actions Tasks
Martin Klissarov, Pierre-Luc Bacon, Jean Harb and Doina Precup, Workshop on Hierarchical Reinforcement Learning at *NeurIPS*, 2017

SELECTED AWARDS

May 2020 **NSERC** Alexander Graham Bell Scholarship

May 2018 **McGill** Graduate Excellence Scholarship

May 2018 **FRQNT** Masters Degree in Natural Science Scholarship