

Dane Malenfant

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Education

McGill University August 2025
MSc. (Thesis), Computer Science

McGill University May 2022
B.A., Computer Science with minors in Psychology and Computer Science

University of Regina May 2018
Certificate, French as a Second Language

Professional Experience

AI 4 Humanity, Mila Montréal, QC
Consultant June 2023 - April 2024

LiNC Lab, Mila - Québec AI Institute + The Neuro Montréal, QC
Research Intern and Assistant July 2022 - August 2023

Branches, Enrollment Services, McGill University Montréal, QC
Assistant Program Coordinator and Interim Manager August 2022 - August 2023

RBC Remote, Canada
Cybersecurity Analyst May 2021 - August 2021

Referred Publications

Conference

1. Sun, C., Yang, W., Jiralerspong, T., **Malenfant, D.**, Alsbury-Nealy, B., Bengio, Y., & Richards, B. A. (2023). Contrastive Retrospection: honing in on critical steps for rapid learning and generalization in RL. Thirty-Seventh Conference on Neural Information Processing Systems.

Workshop

1. **Malenfant, D.**, & Richards, B. (2025). The challenge of hidden gifts in multi-agent reinforcement learning. In Second Coordination and Cooperation in Multi-Agent Reinforcement Learning Workshop.
2. Meehan, M., **Malenfant, D.**, & Piper, A. (2022). Causality Mining in Fiction. In Proceedings of Text2Story - Fifth Workshop on Narrative Extraction From Texts held in conjunction with the 44th European Conference on Information Retrieval (ECIR 2022)
3. Epstein, I., **Malenfant, D.**, Parker, S., Wardrop, C. (2024). Inconsistencies in Artificial Intelligence Strategy Alignment of NATO Member States. Harms and Risks of AI in the Military.

Academic Service

Supervision

(Undergraduate) *Emergent Pro-Social Behavior in RL Agents Through Indigenous Culture* 2024 - 2025

Revision

Reviewer for the European Workshop for Reinforcement Learning June 2024

Reviewer for Harms and Risks of AI in the Military September 2024

Committee Roles

Mila AI Pathfinders Advisory Board Member March 2024 - Present

Mila EDI Committee Member October 2022 - March 2024

Selected Awards

- Best Poster Award at Healthy Brains, Healthy Lives Symposium May 2025
- ISCEI Travel fund February 2025
- Best Poster Award at Montréal AI and Neuroscience Conference October 2024
- NSERC CGSM September 2024
- Indigenous Mathematics Panel Honorarium March 2024
- Rathlyn Fellowship December 2023

Selected Presentations

AISES Canada Gathering
Indigenous in AI/ML. Neurips 2024 (2024, December 12)

AISES East Conference (2024, November 2)

Lightning Talk Montréal AI and Neuroscience Conference (2024, October 22)

Indigenous Mathematics panel (2024, March 14)

Skills

Programming Languages: C/C++, Python, Java, R, Matlab, SQL, Neo4j, Bash, Git, x86, Rmarkdown, HTML, Ocaml, LaTeX

Frameworks: Pytorch, Tensorflow, Numpy, Slurm, WandB, Matplotlib