

Nathan de Lara

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[Google Scholar](#)

Education

University of Toronto

Toronto, ON, 2024-Present

MSc, Computer Science

GPA 4.0/4.0

Supervisor: Florian Shkurti

Thesis: Offline Reinforcement Learning Algorithms That Work with Arbitrary Fine-tuning Approaches

- Relevant Coursework: Large Models, Vector Databases, Imitation Learning, Reasoning with Machine Learning
- Ontario Graduate Scholarship, 2024 (\$15,000)
- University of Toronto Entrance Scholarship, 2024 (\$10,000)
- TA Work: Computers and Society, Introduction to Artificial Intelligence

McGill University

Montreal, QC, 2020-2024

B.A. Honours Mathematics and Computer Science

Supervisors: Doina Precup and Russell Steele

- GPA: 3.9/4.0
- McGill University Dean's Honour List, 2022, 2023, 2024 (Top 10% in Faculty)
- McGill University Graduation in First Class Standing (GPA over 3.5)
- NSERC Undergraduate Summer Research Award, 2024 (\$7,500)
- Relevant Coursework: Nonlinear Optimization, Constrained Optimization, Functional Analysis, Deep Reinforcement Learning, Measure Theoretic Statistics

Experience

Research Intern, Mila / McGill University

Montreal, QC, 2023-2024

Supervisor: Doina Precup

- First Authored "Recurrent Policies are Not Enough for Continual Reinforcement Learning" published at ICBINB Workshop, RLC 2024
- Skills: Jax, PyTorch, Github, GPU accelerated Programming, Docker, Deep Reinforcement Learning, Continual Learning, Meta-Learning

Research Intern, Lady Davis Institute / McGill University

Montreal, QC, 2022-2023

Supervisors: Ian Shrier, Russell Steele

- First Authored "Effect of Injury on Performance" presented at CASSIS 2022
- Skills: Monte-Carlo Markov Chain Estimation, Causal Inference, Time-Series Estimation, Bayesian Data Analysis, Latent Variable Estimation

Hockey Operations Analyst, Las Vegas Golden Knights

Remote, 2021- 2022

- Designed and Implemented database for storing 10hz spatio-temporal tracking data
- Leveraged Dimension Reduction and Clustering methods to automate scouting of players and team strategies
- Skills: SQL, MySQL, Sci-Kit Learn, UMAP, PyTorch, Tableau, Plotly, Dash, Pandas, Numpy

Hockey Operations Intern, Las Vegas Golden Knights

Remote, June - August 2020

- Clustered passing sequences to label plays that teams use to transition between defensive and offensive areas on ice rink
- Built interactive dashboards for Coaches to query and visualize opposition data profiles
- Skills: Pandas, Numpy, Sci-Kit Learn, Tableau, Plotly, Dash

Refereed Conferences

“STITCH-OPE: Trajectory Stitching with Guided Diffusion for Off-Policy Evaluation”

NeurIPS 2025 **Spotlight**

Hossein Goli, Michael Gimelfarb, **Nathan de Lara**, Haruki Nishimura, Masha Itkina, Florian Shkurti

“Towards Safe Mechanical Ventilation Using Deep Reinforcement Learning”

AAAI 2023

Flemming Kondrup, Thomas Jiralerspong, Elaine Lau, **Nathan de Lara**, Jacob Shkrob, My Duc Tran, Doina Precup, Sumana Basu

Refereed Workshops

“Recurrent Policies Are Not Enough For Continual Reinforcement Learning”

ICBINB Workshop at RLC 2024

Nathan de Lara, Veronica Chelu, Doina Precup

“Digital breast tomosynthesis vs two-dimensional mammography screening intermediate risk women in an annual screening program”

SBI 2024 **Oral Presentation**

Nicholas Chow, **Nathan de Lara**, Gilbert Chow, Petrina A. Causer

“Effect of Injury on Performance”

CASSIS 2022

Nathan de Lara, Tyrel Stokes, Russell Steele, Ian Shrier

“Deep Conservative Reinforcement Learning for Personalization of Mechanical Ventilation Treatment”

RLDM 2022

Flemming Kondrup, Thomas Jiralerspong, Elaine Lau, **Nathan de Lara**, Jacob Shkrob, My Duc Tran, Doina Precup, Sumana Basu

Awards

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- NSERC Undergraduate Summer Research Award, 2024 (\$7,500)
- Winning Team of 2022 ProjectX Machine Learning Competition (\$25,000 prize)
- Named to *The Athletic* Hockey’s 40 under 40” 2020
- Winner of 2020 Columbus Blue Jackets Hockey Analytics Competition

Invited Talks

- Canadian Undergraduate Conference on AI 2022
- University of Toronto AI Conference 2022
- Columbus Blue Jackets Hockey Analytics Competition 2020
- Rochester Institute of Technology Sports Analytics Competition 2019

Teaching

- Introduction to Artificial Intelligence (CSC384) Fall 2025, Teaching Assistant
- Computers and Society (CSC300) Fall 2024, Teaching Assistant

Clubs

Co-President of the McGill AI Society	2023-2024
Podcast Producer for McGill AI Society	2022-2023
Goaltender for Department of Computer Science Intramural Hockey Team	2022-2024