

Education

Ph.D. in Computing Science UNIVERSITY OF ALBERTA » Supervisors: Dale Schuurmans, Marlos C. Machado » Research Area: Continual learning, meta learning, reinforcement learning	2019 – Present
M.Sc. in Statistics UNIVERSITY OF ALBERTA » Specialization: Statistical Machine Learning » Supervisors: Ivor Cribben & Rohana Karunamuni » Thesis: Recurrent and Bayesian Kernel Learning for Small Data with Applications to Neuroimaging	2016 - 2018
Honours Bachelor in Mathematics UNIVERSITY OF WATERLOO » Major: Mathematical Economics	2012 - 2016
Papers & Preprints	
The Need for a Big World Simulator: A Scientific Challenge for Continual Learning S. Kumar, H. J. Jeon, A. Lewandowski, B. Van Roy » Finding The Frame Workshop at RLC (Oral Presentation)	08/2024
Learning Continually by Spectral Regularization A. Lewandowski, S. Kumar, D. Schuurmans, A. György, M. C. Machado » Submitted	05/2024
Curvature Explains Loss of Plasticity A. Lewandowski, H. Tanaka, D. Schuurmans, M. C. Machado » Preprint	11/2023
Reinforcement Teaching C. Muslimani*, A. Lewandowski*, D. Schuurmans, M. Taylor, J. Luo » Transactions on Machine Learning Research	06/2023
State and Reward Design: Towards Reinforcement Teaching A. Lewandowski*, C. Muslimani*, M. Taylor, J. Luo » Ecological Theory of RL Workshop at NeurIPS	12/2021
Disentangling Generalization in Reinforcement Learning with Contextual Decision Processes A. Lewandowski, D. Schuurmans, J. Luo » Preprint	09/2021
ZORB: A Derivative-Free Backpropagation Algorithm for Neural Networks V. RANGANATHAN, A. LEWANDOWSKI » Beyond Backpropagation Workshop at Neurips (Oral Presentation)	12/2020
Recurrent Open-loop Control in Offline Reinforcement Learning A. LEWANDOWSKI, D. SCHUURMANS » Offline Reinforcement Learning Workshop at NeurIPS	12/2020
Generalization Across Space and Time in Reinforcement Learning A. Lewandowski » Pre-registration Experiment Workshop at NeurIPS	12/2020
Batch and Sequential Policy Optimization with Doubly Robust Objectives A. Lewandowski, D. Schuurmans » Optimization Foundations of Reinforcement Learning Workshop at NeurIPS	12/2019

Batch Normalized Deep Kernel Learning for Weight Uncertainty

A. LEWANDOWSKI 12/2017

» Bayesian Deep Learning Workshop at NIPS

Work Experience

Research Associate. Canadian Research Institute

HUAWEI TECHNOLOGIES CO., LTD. 2022 - 2023

- » Supervisor: Jun Luo
- » Fundamental research on emerging technologies: reinforcement, deep and continual learning.

Research Associate, Noah's Ark Lab

Huawei Technologies Co., Ltd. 2021 – 2022

- » Supervisor: Jun Luo
- » Researching auto-curriculum and generalization in reinforcement learning, with applications to autonomous vehicles.

Teaching Assistant, Department of Computer Science

University of Alberta 2019 - Present

- » Led discussion groups and designed worksheets for new introductory reinforcement learning course.
- » Mentored students through projects and group assignments for foundations in information retrieval.

Teaching Assistant, Department of Mathematical and Statistical Sciences

University of Alberta 2016 - 2018

- » Led help sessions in Introduction to Applied Statistics, Statistics I/II, Applied Regression Analysis and Time Series Analysis.
- » Provided one on one assistance with assignments for first and second year classes at the Decima Robinson Support Centre.

Honors & Awards

University of Alberta, Department of Computing Science	2022—2024
President's Doctoral Prize of Distinction	
University of Alberta, Department of Computing Science	2021—2024
NSERC Postgraduate Scholarships – Doctoral	
University of Alberta, Department of Computing Science	2021—2024
Josephine Mitchell Scholarship	
University of Alberta, Department of Mathematical and Statistical Sciences	2017—2018
Profiling Alberta's Graduate Students Award	
University of Alberta, Department of Mathematical and Statistical Sciences	2017
Queen Elizabeth II Graduate Scholarship	
University of Alberta, Department of Mathematical and Statistical Sciences	2016
Term Dean's Honour List	
University of Waterloo	2015
President's Scholarship	
University of Waterloo	2012

Service

Reviewer

Organizer Openmind Continual Learning Retreat 2023, ICLR SSBM Social 2021, NeurIPS SSBM Social 2020, ICLR

Reinforcement Learning Social 2020,

RLC 2024, Finding the Frame Workshop at RLC 2024, ICML 2021-2024 (Outstanding Reviewer Award

2022), ICLR 2020-2024 (Outstanding Reviewer Award 2021-2022), NeurIPS 2021-2024 (Top

Reviewer Award 2022), ICML RL4RealLife Workshop 2021, NeurIPS Offline RL Workshop 2021,

OPTRL Workshop at NeurIPS 2019, TNNLS 2018-2019CIFAR,

University Academic Director at Computing Science Graduate Student Association 2022–2023

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