

# Papers & Preprints

Curvature Explains Loss of Plasticity  A. Lewandowski, Haruto Tanaka, Dale Schuurmans, Marlos C. Machado  » Submitted	06/2023
Reinforcement Teaching C. Muslimani*, A. Lewandowski*, Dale 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 (NeurIPS 2020)	12/2020
Generalization Across Space and Time in Reinforcement Learning  A. Lewandowski  » Pre-registration Experiment Workshop (NeurIPS 2020)	12/2020
Batch and Sequential Policy Optimization with Doubly Robust Objectives  A. LEWANDOWSKI, D. SCHUURMANS  » Optimization Foundations of Reinforcement Learning Workshop (NeurIPS 2019)	12/2019
Batch Normalized Deep Kernel Learning for Weight Uncertainty  A. LEWANDOWSKI  » Bayesian Deep Learning Workshop (NIPS 2017)	12/2017

# Work Experience

### Research Associate, Canadian Research Institute

HUAWEI TECHNOLOGIES Co., LTD. 01/2023 - Present

» Supervisor: Jun Luo

» Fundamental research on emerging technologies: reinforcement, deep and continual learning.

## Research Associate, Noah's Ark Lab

Huawei Technologies Co., Ltd. 01/2021 - 12/2022

» 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 01/2019 - Present

» Guided students through projects and group assignments for foundations in information retrieval.

#### Research Assistant, Department of Computer Science

UNIVERSITY OF ALBERTA 08/2018 - Present

» Supervisor: Dale Schuurmans

» Researching methods that bridge the gap between online and batch reinforcement learning

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### **Teaching Assistant, Department of Mathematical and Statistical Sciences**

University of Alberta 09/2016 - 04/2018

- » 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.

#### Research Assistant, Department of Mathematical and Statistical Sciences

University of Alberta 05/2017 - 07/2018

- » Supervisor: Ivor Cribben
- » Implemented Gaussian process and deep learning methods to classify patients based on fMRI data using TensorFlow.
- » Developed stochastic variational methods for recurrent neural network parameterized kernels in Gaussian process classification.

# Education

## Ph.D. in Computing Science

UNIVERSITY OF ALBERTA 2019 - Present

- » Specialization: Statistical Machine Learning
- » Supervisors: Dale Schuurmans, Marlos C. Machado

#### M.Sc. in Statistics

University of Alberta 2016 - 2018

- » Specialization: Statistical Machine Learning
- » Supervisors: Ivor Cribben & Rohana Karunamuni
- » Thesis: Recurrent and Bayesian Kernel Learning for Small Data with Applications to Neuroimaging

#### **Honours Bachelor in Mathematics**

University of Waterloo 2012 - 2016

» Major: Mathematical Economics

# **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 2018

Profiling Alberta's Graduate Students Award

University of Alberta, Department of Mathematical and Statistical Sciences 2017

Josephine Mitchell Scholarship

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

Organizer

ICLR Reinforcement Learning Social 2020, NeurIPS SSBM Social 2020, ICLR SSBM Social 2021,

Openmind Continual Learning Retreat

TNNLS 2018-2019, Neurips OPTRL Workshop 2019, ICLR 2020-2023 (Outstanding Reviewer Award

**Reviewer** 2021-2022), ICML RL4RealLife Workshop 2021, NeurIPS 2021-2023 (Top Reviewer Award 2022),

NeurIPS Offline RL Workshop 2021, ICML 2021-2023 (Outstanding Reviewer Award 2022)