

Papers & Preprints

Learning Curricula By Encoding Student Trajectories

A. LEWANDOWSKI, C. MUSLIMANI, M. TAYLOR, J. LUO

» Preprint

09/2021

Disentangling Generalization in Reinforcement Learning with Contextual Decision Processes

A. LEWANDOWSKI, D. SCHUURMANS, J. LUO

» Preprint

09/2021

LISPR: An Options Framework for Policy Reuse with Reinforcement Learning

D. GRAVES, A. LEWANDOWSKI, J. JIN, Z. ZHANG, Y. ZAKY, J. LUO

» Preprint

2/2021

ZORB: A Derivative-Free Backpropagation Algorithm for Neural Networks

V. RANGANATHAN, A. LEWANDOWSKI

» Beyond Backpropagation Workshop (NeurIPS 2020, 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

Return Distribution Estimation for Off-Policy Control

A. LEWANDOWSKI, D. SCHUURMANS

» Deep Learning and Reinforcement Learning Summer School.

08/2019

Batch Normalized Deep Kernel Learning for Weight Uncertainty

A. LEWANDOWSKI

» Bayesian Deep Learning Workshop (NIPS 2017)

12/2017

Education

Ph.D. in Computing Science

UNIVERSITY OF ALBERTA

» Specialization: Statistical Machine Learning

» Supervisor: Dale Schuurmans

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

Work Experience

Research Associate, Noah's Ark Lab

HUAWEI TECHNOLOGIES CO., LTD.

01/2021 - 12/2021

- » 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

- » Organized discussion groups and worksheets for new introductory reinforcement learning course.
- » 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

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.

Honors & Awards

President's Doctoral Prize of Distinction

University of Alberta, Department of Computing Science

2021

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

Reviewer

TNNLS 2018-2019, NeurIPS OPTRL Workshop 2019, ICLR 2020, ICLR 2021 (Outstanding Reviewer Award), ICML RL4RealLife Workshop 2021, NeurIPS 2021, NeurIPS Offline RL Workshop 2021