
CONTACT INFORMATION	Department of Computing Science 307 Athabasca Hall University of Alberta Edmonton, AB Canada T6G 2E8	9637 77th Ave NW Edmonton, AB, T6C 0M4 (780) 908-5499 amw8@ualberta.ca www.adamwhite.ca
------------------------	--	---

RESEARCH INTERESTS	Reinforcement learning , continual learning, knowledge representations, representation learning, time series prediction, robotics, and machine learning.
-----------------------	---

ACADEMIC POSITIONS	Assistant Professor 2019-Present <i>Canada CIFAR AI Chair</i> 2018-Present <i>Director of the Alberta Machine Intelligence Institute (Amii)</i> 2024-Present <i>Reinforcement Learning and Artificial Intelligence Lab PI</i> 2018-Present Department of Computing Science, University of Alberta
-----------------------	--

Staff Research Scientist 2021-2023 DeepMind

Senior Research Scientist 2017-2021 DeepMind
--

Research Associate & Adjunct Professor 2017-2019 Department of Computing Science, University of Alberta

Assistant Research Professor 2016-2017 Department of Computer Science, Indiana University

EDUCATION	Postdoctoral Fellow 2015-2016 Indiana University , Department of Computer Science
-----------	---

Doctor of Philosophy in Computing Science 2015 University of Alberta Advisor: Professor Richard Sutton Thesis topic: Developing a predictive approach to knowledge
--

Master of Science in Computing Science 2006 University of Alberta Advisor: Professor Richard Sutton Thesis topic: A Standard System for Benchmarking in Reinforcement Learning
--

Bachelor of Science in Computer Science 2004 University of New Brunswick Honors with a Specialisation in High Performance Scientific Computing

PUBLICATIONS

A star(*) beside an author name indicates an HQP (co-)supervised by me (from 2019 onward), italics indicates senior researcher, and bold marks my name. DM indicates a project completed at Google Deepmind. Acceptance rate noted as a percentage, if available.

Journal Articles

- [52] **Empirical design in reinforcement learning**, *Patterson, A., *Neumann, S., *White, M.*, **White, A.**. Journal of Machine Learning Research, *to appear*, 2024. (~17%)
- [51] **Goal-Space Planning with Subgoal Models**, Lo, C., *Roice, K., *Panahi, P. M., *Jordan, S., **White, A.**, Mihucz, G., Aminmansour, F., *White, M.*. Journal of Machine Learning Research, *to appear*, 2024. (~17%)
- [50] **Investigating the Properties of Neural Network Representations in Reinforcement Learning**, *Wang, H., Miah, E., *White, M.*, *Machado, M. C.*, Abbas, Z., *Kumaraswamy, R., Liu, V., **White, A.** AI Journal, 2024.
- [49] **Humans adopt different exploration strategies depending on the environment**, *Ferguson, T. D., *Fyshe, A.*, **White, A.**, *Krigolson, O. E.* Computational Brain & Behavior, 2023.
- [48] **GVPs in the Real World: Making Predictions Online for Water Treatment**, Janjua, M. K., Shah, H., *White, M.*, Miah, E., *Machado, M. C.*, **White, A.** Special issue on reinforcement learning for real life. Machine Learning, 2023.
- [47] **Agent-State Construction with Auxiliary Inputs**, *Tao, R. Y., **White, A.**, *Machado, M. C.* Transactions on Machine Learning Research, 2023.
- [46] **Reward-Respecting Subtasks for Model-Based Reinforcement Learning**, *Sutton, R. S.*, *Machado, M. C.*, Holland, Z., Szepesvari, D., Timbers, F., Tanner, B., **White, A.** The journal of Artificial Intelligence (AIJ), 2023. DM
- [45] **Investigating Action Encodings in Recurrent Neural Networks in Reinforcement Learning**. *Schlegel, M. K., Tkachuk, V., **White, A.**, *White, M.* Transactions on Machine Learning Research, 2022.
- [44] **No More Pesky Hyperparameters: Offline Hyperparameter Tuning for RL**. *Wang, H., *Sakhadeo, A., **White, A.**, Bell, J., Liu, V., *Zhao, X., *Liu, P., Kozuno, T., *Fyshe, A.*, *White, M.* Transactions on Machine Learning Research, 2022.
- [43] **A Generalized Projected Bellman Error for Off-policy Value Estimation in Reinforcement Learning**, *Patterson, A., **White, A.**, *White, M.* Journal of Machine Learning Research, 2022. (~17%)
- [42] **From eye-blinks to state construction: diagnostic benchmarks for online representation learning**, *Rafiee, B., Abbas, Z., *Ghiassian, S., *Kumaraswamy, R., *Sutton, R. S.*, *Ludvig, E.*, **White, A.** Adaptive Behavior, 2022.

- [41] **General Value Function Networks**, *Schlegel, M. K., *Jacobsen, A., Zaheer, A., *Patterson, A., **White, A.**, *White, M.* Journal of Artificial Intelligence Research, 2020.
- [40] **Adapting Behavior via Intrinsic Reward: A Survey and Empirical Study**, *Linke, C., Ady, N. M., Degris, T., *White, M.*, **White, A.** Journal of Artificial Intelligence Research, 2020.
- [39] **Multi-timescale Nexting in a Reinforcement Learning Robot**, Modayil, J., **White, A.**, *Sutton, R. S.* Adaptive Behavior, 2014.
- [38] **The Reinforcement Learning Competitions**, *Whiteson, S.*, Tanner, B., **White, A.** AI Magazine, 2010.
- [37] **RL-Glue: Language-independent Software for Reinforcement-learning Experiments**, Tanner, B., **White, A.** The Journal of Machine Learning Research, 2009.

Refereed Conference Articles

- [36] **Harnessing Discrete Representations for Continual Reinforcement Learning**. *Meyer, E. J, **White, A.**, *Machado, M. C.* The Reinforcement Learning Conference, 2024. (39%)
- [35] **The Cliff of Overcommitment with Policy Gradient Step Sizes**. *Jordan, S., *Neumann, S., Kostas, J. E., **White, A.**, *Thomas, P. S.* The Reinforcement Learning Conference, 2024. (39%)
- [34] **Investigating the Interplay of Prioritized Replay and Generalization**. *Panahi, P. M., Patterson, A., *White, M.*, **White, A.** The Reinforcement Learning Conference, 2024. (39%)
- [33] **The Cross-environment Hyperparameter Setting Benchmark for Reinforcement Learning**. *Patterson, A., *Neumann, S., *Kumaraswamy, R., *White, M.*, **White, A.** The Reinforcement Learning Conference, 2024. (39%)
- [32] **Position: Benchmarking is Limited in Reinforcement Learning Research**. *Jordan, S. M, **White, A.**, *Castro da Silva, B.*, *White, M.*, *Thomas, P. S.* International Conference on Machine Learning, 2024. (26%)
- [31] **Position: Application-Driven Innovation in Machine Learning**. *Rolnick, D.*, *Aspuru-Guzik, A.*, *Beery, S.*, *Dilkina, B.*, *Donti, P. L.*, *Ghassemi, M.*, *Kerner, H.*, *Monteleoni, C.*, *Rolf, E.*, *Tambe, M.*, **White, A.** International Conference on Machine Learning, 2024. (26%)
- [30] **Puzzle Entropy: Modeling Difficulty, Enjoyment and Learning**. *Chen, E. Y, **White, A.**, *Sturtevant, N.R.* Artificial Intelligence and Interactive Digital Entertainment, 2023. (Oral, shortlisted for best paper, 27.6% acceptance rate for orals)
- [29] **Loss of Plasticity in Continual Deep Reinforcement Learning**. Abbas, Z., Zhao, R., Modayil, J., **White, A.**, *Machado, M. C.* International Conference on Lifelong Learning Agents, 2023. (Oral). DM

- [28] **Measuring and Mitigating Interference in Reinforcement Learning.** Liu, V., *Wang, H., *Tao, R. Y., Javed, K., **White, A.**, *White, M.* International Conference on Lifelong Learning Agents, 2023.
- [27] **Auxiliary task discovery through generate-and-test.** *Rafiee, B., *Ghiassian, S., Jin, J., *Sutton, R. S.*, Luo, J., **White, A.** International Conference on Lifelong Learning Agents, 2023.
- [26] **Greedy Actor-Critic: A New Conditional Cross-Entropy Method for Policy Improvement.** *Neumann, S., Lim, S., Joseph, A. G., *Pan, Y., **White, A.**, *White, M.* International Conference on Learning Representations, 2023. (32.0%)
- [25] **The In-Sample Softmax for Offline Reinforcement Learning.** Xiao, C., *Wang, H., *Pan, Y., **White, A.**, *White, M.* International Conference on Learning Representations, 2023. (Top 25% of accepted papers; 32.0%)
- [24] **Learning Expected Emphatic Traces for Deep RL.** Jiang, R., Zhang, S., Chelu, V., **White, A.**, *van Hasselt, H.* AAAI Conference on Artificial Intelligence, 2022. (15%). DM
- [23] **Continual auxiliary task learning.** *McLeod, M., Lo, C., *Schlegel, M. K., *Jacobsen, A., *Kumaraswamy, R., *White, M.*, **White, A.** Advances in Neural Information Processing Systems, 34, 2021. (26%)
- [22] **Emphatic Algorithms for Deep Reinforcement Learning.** Jiang, R., Zahavy, T., Xu, Z., **White, A.**, Hessel, M., Blundell, C., *van Hasselt, H.* International Conference on Machine Learning (ICML), 2021. (21%). DM
- [21] **Gradient Temporal-Difference Learning with Regularized Corrections.** *Ghiassian, S., *Patterson, A., Garg, S., Gupta, D., **White, A.**, *White, M.* International Conference on Machine Learning (ICML), 2020. (21%)
- [20] **Improving Performance in Reinforcement Learning by Breaking Generalization in Neural Networks.** *Ghiassian, S., *Rafiee, B., Lo, Y. L., **White, A.** International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), 2020. (23%)
- [19] **Training Recurrent Neural Networks Online by Learning Explicit State Variables.** Nath, S., Liu, V., *Li, X., Chan, A., **White, A.**, *White, M.* International Conference on Learning Representations (ICLR), 2020. (26.5%)
- [18] **Planning with Expectation Models,** Wan, Y., Zaheer, A., *Sutton, R. S.*, **White, A.**, *White, M.* The International Joint Conference on Artificial Intelligence (IJCAI), 2019. (17.9%)
- [17] **Prediction in Intelligence: An Empirical Comparison of Off-policy Algorithms on Robots,** *Rafiee, B., *Ghiassian, S., **White, A.**, *Sutton, R. S.* The 18th International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2019. (24.3%)

- [16] **Meta-descent for Online, Continual Prediction**, *Jacobsen, A., *Schlegel, M. K., *Linke, C., Degris T., **White, A.**, *White, M.* AAI Conference on Artificial Intelligence (AAAI), 2019. (16.2%)
- [15] **Context-dependent Upper-confidence Bounds for Directed Exploration**, *Kumaraswamy, R., *Schlegel, M. K., **White, A.**, *White, M.* Advances in Neural Information Processing Systems (neurIPS), 2019. (21.1%)
- [14] **Directly Estimating the Variance of the λ -Return Using Temporal-Difference Methods**, Sherstan, C., Bennett, B., Young, K., Ashley, D., **White, A.**, *White, M., Sutton, R. S.* Conference on Uncertainty in Artificial Intelligence (UAI), 2018. (30.8%)
- [13] **Organizing Experience: a Deeper Look at Replay Mechanisms for Sample-based Planning in Continuous-State Domains**, Pan, Y., Zaheer, A., **White, A.**, Patterson, A., *White, M.* International Joint Conference on Artificial Intelligence (IJCAI), 2018. (20.5%)
- [12] **Accelerated Gradient Temporal Difference Learning**, Pan, Y., **White, A.**, *White, M.* AAI Conference on Artificial Intelligence, 2017. (24.6%)
- [11] **Introspective Agents: Confidence Measures for General Value Functions**, Sherstan, C., Machado, M.C., **White, A.**, *Pilarski, P. M.* Artificial General Intelligence (AGI), 2016.
- [10] **Investigating Practical Linear Temporal Difference Learning**, **White, A.**, *White, M.* International Conference on Autonomous Agents and MultiAgent Systems (AAMAS), 2016. (24.9%)
- [9] **Adapting the Trace Parameter in Reinforcement Learning**, *White, M., White, A.* International Conference on Autonomous Agents and MultiAgent Systems (AAMAS), 2016. (24.9%)
- [8] **Scaling Life-long Off-policy Learning**, **White, A.**, Modayil, J., *Sutton, R. S.* IEEE International Conference on Development and Learning and Epigenetic Robotics (ICDL), 2013. (Distinguished Paper Award; 65%)
- [7] **Multi-timescale Nexting in a Reinforcement Learning Robot**, Modayil, J., **White, A.**, *Sutton, R. S.* From Animals to Animats, 2012.
- [6] **Acquiring Diverse Predictive Knowledge in Real Time by Temporal-difference Learning**, Modayil, J., **White, A.**, Pilarski, P. M., *Sutton, R. S.* Systems, Man, and Cybernetics, 2012.
- [5] **Horde: A Scalable Real-time Architecture for Learning Knowledge from Unsupervised Sensorimotor Interaction.** *Sutton, R. S.,* Modayil, J., Delp, M., Degris, T., Pilarski, P. M., **White, A.**, *Precup, D.* International Conference on Autonomous Agents and Multiagent Systems, 2011. (21.9%)
- [4] **Interval Estimation for Reinforcement-Learning Algorithms in Continuous-State Domains**, White, M., **White, A.** Advances in Neural Information Processing Systems (NIPS), 2010. (24.04%)

- [3] **Feature Construction for Reinforcement Learning in Hearts**, Sturtevant, N., **White, A.** Computers and Games, 2007.

Thesis

- [2] **A Standard System for Benchmarking in Reinforcement Learning**, White, A., Master’s Thesis, University of Alberta, 2006.
- [1] **Developing a predictive approach to knowledge**, White, A., Doctoral Thesis, University of Alberta, 2015. (50.3%)

RESEARCH GRANTS	Canada CIFAR AI Recruitment Chair	2020-2025
	\$405,000 over five years. Sole PI: “Intrinsically Motivated, Life-long RL”.	
	NSERC Discovery Grant	2019-2025
	\$196,000 plus a \$12,500 launch supplement for the first year. Sole PI: “Developing inquisitive, model-based agents for reinforcement learning”.	
	NSERC CRD	2018-2022
	\$536,700 total for three years. Co-PI: “Optimizing water treatment operation using reinforcement learning.”	

SUPERVISION	Current Students	
	Steven Tang, MSc	2024-present
	Armin Ashrafi, MSc	2024-present
	Oliver Diamond, MSc	2024-present
	Sam Scholnick-Hughes, MSc	2024-present
	Eric Xiong, MSc	2024-present
	Cameron Jen, MSc	2024-present
	Jacob Adkins, MSc (co-advised with Bowling)	2023-present
	Ty Lazar, MSc	2023-present
	Samuel Neumann, PhD	2022-present
	Han Wang, PhD (co-advised with White)	2020-present
	Parham Mohammad Panahi, RA	Fall 2024
	Steven Tang, NSERC USRA	Summer, 2024
	Tom Ferguson, Post-doc (co-advised with Fyshe)	2022-present
	Scott Jordan, Post-doc (co-advised with White)	2022-present
	Hongming Zhang (Doctoral Supervisory Committee)	2023-present

Alex Lewandowski (Doctoral Supervisory Committee) 2022-present

Below *co-advised indicates I was the primary advisor, otherwise the supervision was equal.

Graduated

Ehsan Imani, Doctoral Supervisory Committee, 2024

Andrew Jacobsen, Doctoral Supervisory Committee, 2024

Golnaz Mesbahi (*co-advised with White) MSc 2024

Parham Mohammad Panahi, MSc 2024

Kevin Roice (co-advised with White), 2024

Jordan Coblin, MSc 2024

Banafsheh Rafiee (co-advised with Sutton), PhD 2024

Andrew Patterson, Doctoral Supervisory Committee 2023

Matthew Schlegel (co-advised with White), PhD 2023

Edan Meyer (co-advised with Machado), MSc 2023

Subhojeet Pramanik (co-advised with Machado), MSc 2023

Eugene Chen (co-advised with Sturtevant), MSc 2023

Kailash Seshadri, Summer Ugrad 2023

Cameron Jen, NSERC USRA 2023

Derek Li, MSc 2022

Paul Liu, MSc 2022

Samuel Neumann, MSc 2022

David Tao (co-advised with Machado), MSc 2022

Sina Ghiassian (co-advised with Sutton) ,PhD 2022

Raksha Kumaraswamy (co-advised with White), PhD 2021

Kris De Asis, Doctoral Supervisory Committee, 2021

Matthew McLeod, MSc 2021

Archit Sakhadeo (*co-advised with Fyshe), MSc 2021

Xutong Zhao, MSc 2021

Yangchen Pan, Doctoral Supervisory Committee 2021

Cam Linke (*co-advised with Sutton), MSc 2020

Han Wang, MSc 2020

Niko Yasui (co-advised with White), MSc 2020

Andrew Jacobsen MSc 2019

Banafshe Rafiee, Research Associate 2019

Banafsheh Rafiee (co-advised with Sutton), MSc 2018
Andrew Jacobsen, NSERC USRA 2018

Thesis Examining Committee

Geraud Nangue Tasse, Witwatersrand, PhD External 2024
Tales Henrique Carvalho, University of Alberta, MSc Examiner 2023
Muhammad Kamran Janjua, University of Alberta, MSc Examiner 2023
Chenjun Xiao, University of Alberta, PhD Examiner 2022
Calarina Muslimani, University of Alberta, MSc Examiner 2022
Chunlok Lo, University of Alberta, MSc Examiner 2022
Gabor Mihucz, University of Alberta, MSc Examiner 2022
Ethan Jones, UNSW Sydney, PhD External Examiner 2022
Yannis Flet-Berliac, Inria Lille, PhD External Examiner 2021
Joshua Romoff, McGill, PhD External Examiner 2021
Chen Ma, University of Alberta, MSc final 2019
Arta Seify, University of Alberta, MSc final 2019

TEACHING

Reinforcement Learning Four Course Specialization,
Coursera and University of Alberta (undergraduate level)
Launched Fall 2019; >80,000 registrations

IND-T 161: AI Everywhere, University of Alberta (undergraduate)
Winter 2024

CMPUT 655: Reinforcement Learning I, University of Alberta (graduate)
Fall 2022

CMPUT 365: Introduction to Reinforcement Learning, University of Alberta (undergraduate)
Fall 2021

CMPUT 607: Empirical Reinforcement Learning, University of Alberta (graduate)
Winter 2021

Reinforcement Learning four course Specialization on Coursera (uab.ca/RLMOOC)
Launched Fall 2019

CMPUT 397: Reinforcement Learning I, University of Alberta (undergraduate)
Fall 2019

CMPUT 366: Intelligent Systems, University of Alberta (undergraduate)
Fall 2017, 2018

CMPUT 609: Reinforcement learning For Artificial Intelligence, University of Alberta (Graduate)

Fall 2017

CS B659: Reinforcement Learning, Indiana University (Graduate)

Spring 2016, 2017

TALKS

Bayes-Duality Workshop. Riken Institute, Japan. *Continual Subtask Learning*, June 2024.

City of Edmonton: Lunch and Learn Series. *AI at UofA*, June 2024.

Edmonton Data Management Association Meeting. *AI Past, Present, and Future*, June 2024.

AI4Good Lab. *Introduction to Reinforcement Learning: Control*, May 2024.

AI4Good Lab. *Introduction to Reinforcement Learning: Prediction*, May 2024.

University of Alberta, Computing Science Department Seminar. *Continual Reinforcement Learning in the Real World*, May 2024.

Amii UpperBound Conference. *Continual Subtask Learning*, May 2024.

Amii UpperBound Conference. *Better RL Experiments*, May 2024.

University of Alberta, Computing Science Department Seminar. *Continual Reinforcement Learning in the Real World*, May 2024.

Edmonton Public Library: On the Edge. *AI Past, Present, and Future*, Spring 2024.

Invited Journal Track Talk, AAAI Conference on Artificial Intelligence. *Reward-respecting Subtasks for Model-based Reinforcement Learning*, Spring 2024.

Seminar, Stanford University RL Forum. *Continual Subtask Learning*, Fall 2023.

Invited talk, Edmonton Regional Innovation Network, Northern Alberta Institute of Technology. *The future of automated decision making*, Fall 2023.

Invited talk, Pan-Canadian AI Strategy Symposium on AI for Energy and the Environment. *AI for safe and sustainable rural drinking water*, Spring 2023.

Seminar, University of Bath. *Leveraging offline data for learning in deployment*, Spring 2023.

Invited talk, RL-sofa Seminar Series, Mila Montreal. *Leveraging offline data for learning in deployment*, Spring 2023.

Invited talk, Huawei Constructive AI Meeting. *Adaptive Behavior for Life-long Learning*, Winter 2022.

Guest lecture, MIT Deep Reinforcement Learning Class. *Better Experiments in Reinforcement Learning*, Fall 2022.

Invited Lecture, CIFAR Deep Learning and Reinforcement Learning Summer School, Virtual. *Better Experiments in Reinforcement Learning*, Summer 2022.

Invited talk, Amii AI Week Academic Symposium, Edmonton Alberta. *Improving Water Treatment with Reinforcement Learning*, Sprint 2022.

Invited Lecture, CIFAR Deep Learning and Reinforcement Learning Summer School, Montreal Quebec. *Introduction to Reinforcement Learning*, Summer 2020.

Keynote Lecture, Inaugural Autonomous Systems Initiative (ASI) Workshop. *Scalable Predictive Knowledge Acquisition*, May 2020.

Panelist, Huawei workshop on Reinforcement Learning. December 2019.

Invited talk, Huawei STW Summit, Shenzhen China. *Parallel Prediction learning with Reinforcement Learning*, May 2019.

Invited Lecture, CIFAR Deep Learning and Reinforcement Learning Summer School, Edmonton Alberta. *Introduction to Reinforcement Learning*, Summer 2019.

Invited talk, Workshop on Deep, fast and shallow learning in humans and machines, Indiana University Department. *Curiosity for learning about many things in parallel*, May 2018.

The 11th Barbados Workshop on Reinforcement Learning. *Realtime Interactive Mastery*, March 2018.

Invited talk, Indiana University Department of Statistics Colloquium Series. Invited talk: *Continual prediction learning on robots*, November 2016.

International Conference on Autonomous Agents and Multiagent Systems, Singapore. *Investigating practical linear temporal difference learning*, May 2016.

Intelligent and Interactive Systems Seminar, Indiana University. *Developing a predictive approach to knowledge*, April 2016.

The 9th Barbados Workshop on Reinforcement Learning. *Experiences trying to put it all together*, April 2015.

AAAI Workshop on Decision Making With Big Data. *Surprise and curiosity in big data reinforcement learning*, July 2014.

International Conference on Development and Learning and Epigenetic Robotics. *Scaling life-long off-policy learning*, December 2012.

Flowers Group, INRIA France. Invited Talk: *Parallel off-policy knowledge acquisition*, September 2012.

International Workshop on Evolutionary and Reinforcement Learning for Autonomous Robot Systems. *Acquiring a Broad Range of Empirical Knowledge in Real Time by Temporal-Difference Learning*, August 2012.

The 7th Barbados Workshop on Reinforcement Learning. *Real-time Off-policy Learning from Big Data in Robotics*, April 2012.

The 6th Barbados Workshop on Reinforcement Learning. *Multi-time-scale Nexting on a Reinforcement Learning Robot*, April 2011.

The 5th Barbados Workshop on Reinforcement Learning. *Feature Selection for Hearts and a Trail Towards Feature Discovery for a Mobile Robot*, March 2010.

International Conference on Autonomous Agents and Multiagent Systems, Taipei. *Horde: A Scalable Real-time Architecture for Learning Knowledge from Unsupervised Sensorimotor Interaction*, May 2011.

Advances in Neural Information Processing Systems, Reinforcement Learning Workshop: Benchmarks and Bakeoffs II. Invited talk: *A New Evaluation Framework for Reinforcement Learning Experiments*, December 2005.

SERVICE AND OUTREACH

- Associate Editor, The Reinforcement Learning Journal
- Senior Area Chair, International Conference on Learning Representations
- Transactions on Machine Learning Research (TMLR) Action Editor
- ICLR 2021 Outstanding Paper Award Committee 2021
- Senior Program Committee, AAAI Conference on Artificial Intelligence
- Area Chair, Neural Information Processing Systems
- Area Chair, International Conference on Learning Representations
- Area Chair, International Conference on Machine Learning
- Program Committee, International Conference on Machine Learning
- Program Committee, International Joint Conference on Artificial Intelligence
- Program Committee, Artificial Intelligence and Statistics Conference
- Reviewer, Conference on Autonomous Agents and Multi-agent Systems
- Reviewer, Transactions on Computational Intelligence and AI in Games
- Reviewer, European Workshop on Reinforcement learning
- Reviewer, Journal of Machine Learning Research
- Reviewer, Artificial Intelligence Journal
- Reviewer, Journal of Robotics
- Reviewer, Journal Computational Intelligence and AI in Games

Event Organization

- General Chair, The Reinforcement Learning Conference, 2025
- Program Chair, The Reinforcement Learning Conference, 2024
- Board Member, Conference on Lifelong Learning Agents, 2023, 2024
- Amii UpperBound (formally AI-Week), *Organizing Committee*, 2023, 2024
- CIFAR Pan-Canadian AI Strategy AI for Energy and the Environment, *Working Group*, 2023
- Conference on Lifelong Learning Agents, *Executive Committee*, 2022-present
- Conference on Lifelong Learning Agents, *Steering Committee*, 2022
- CIFAR Deep Learning and Reinforcement Learning Summer School, *Organizing Committee*, 2022

- Founding member of *mementor.net*: a platform connecting AI researchers across the world
- CIFAR Deep Learning and Reinforcement Learning Summer School, *Organising Committee*, 2021
- A Roadmap to Never-Ending RL, International Conference on Learning Representations *Main Organiser*, 2019
- International Conference on Machine Learning, *Social Chair*, 2021
- International Conference on Machine Learning, *Social Chair*, 2020
- International Conference on Learning Representations, *Social Chair*, 2020
- Multi-disciplinary Conference on Reinforcement Learning and Decision Making workshop: Curiosity for Decision Making, *Main Organiser*, 2019
- CIFAR Deep Learning and Reinforcement Learning Summer School, *Organising Committee*, 2019
- International Conference on Machine Learning, Reinforcement Learning Competition, *Organising Committee*, 2008
- Advances in Neural Information Processing Systems workshop: The First Annual Reinforcement Learning Competition, *Main Organiser*, 2007
- Advances in Neural Information Processing Systems workshop: Reinforcement Learning Benchmarks and Bakeoffs II, *Organising Committee*, 2006

AWARDS

Highlighted Area Chair, 2022 International Conference on Learning Representations

Canada CIFAR AI Chair, 2020, CIFAR Canada

Top 200 Reviewer Award (highest award), 2019 International Conference on Neural Information Processing Systems

Top 10 Reviewer Award, 2018 International Conference on Machine Learning

Best Reviewer Award, 2017 International Conference on Neural Information Processing Systems

Reviewer Award, 2015 International Conference on Machine Learning

Paper of Distinction, IEEE International Conference on Developmental Robotics and Epigenetic Robotics, 2012

Best Paper, International Workshop on Evolutionary and Reinforcement Learning for Autonomous Robot Systems, 2013

CODE

RL-Glue version 1.0 2006

RELEASED

LANGUAGES: JAVA, C, AND PYTHON. A language-independent communication protocol and evaluation framework for reinforcement learning experiments.

RL-Glue version 2.0 2007

LANGUAGES: JAVA, C, AND PYTHON. A version of RL-Glue that allowed benchmarking competitions to be run via remote socket communication.

PERSONAL

Citizenship: Canada

INFORMATION

Languages: English