## **DYLAN ASHLEY**

+41 78 213 19 50 ♦ mail@dylanashley.io ♦ https://dylanashley.io

#### **EDUCATION**

Ph.D. in Informatics Expected Late 2025

Università della Svizzera italiana (Dalle Molle Institute for Artificial Intelligence Research)

Supervisor: Jürgen Schmidhuber

Focus: Reinforcement Learning, Neural Networks, Machine Learning

## M.Sc. in Computing Science

2020

University of Alberta (Alberta Machine Intelligence Institute)

Supervisor: Richard S. Sutton

GPA: 4.0 / 4.0

## **B.Sc.** Honors in Computing Science

2017

University of Alberta

## WORK EXPERIENCE

### Consultant / Visiting Researcher

2023 – Present

Center of Excellence in Generative AI, King Abdullah University of Science and Technology

- · Visited two separate times for four and six months, respectively, and now a remote consultant.
- Working with Prof. Eric Feron and Prof. Jürgen Schmidhuber on several topics related to deep learning and robotics.

## **Chief Technology Officer**

2021 – Present

Perseverance Analytics Ltd.

- · Founding member of an incorporated non-profit data science startup based in Alberta, Canada.
- Startup focuses on connecting communities to social supports to bridge the gap between the availability and accessibility of services.

#### **Doctoral Research Assistant**

2021 – Present

Università della Svizzera italiana

• Working with Prof. Jürgen Schmidhuber on several deep learning topics.

#### **Vice-President Academic**

2019 - 2020

Graduate Students' Association, University of Alberta

- Official representative of over 7,900 graduate students in academic matters.
- Advocated for graduate student issues to the university and worked with the university to build a better learning environment for students.
- Delivered several significant advocacy victories, including better oversight for mentorship and a reduced increment in tuition during a budgetary crisis.
- Time commitment of approximately 30 hours a week for a one-year term.

#### **Graduate Research Assistant**

2017 - 2020

University of Alberta

· Worked with Prof. Richard S. Sutton and others on several reinforcement learning topics.

University of Alberta

 Won three separate competitive four-month NSERC Undergraduate Student Research Awards, the first working with first Prof. José Nelson Amaral, and the latter two working with Prof. Richard S. Sutton.

#### **SELECTED PREPRINTS**

- Wang, Y., Wu, Q., Li, W., **Ashley, D. R.**, Faccio, F., Huang, C., & Schmidhuber, J. (2024) *Scaling Value Iteration Networks to 5000 Layers for Extreme Long-Term Planning.* arXiv. https://arxiv.org/abs/2406.08404
  - Submitted to the 2025 International Conference on Learning Representations (ICLR). Previously presented at the 2024 European Workshop on Reinforcement Learning (EWRL).
- Alhakami, M.\*, **Ashley, D. R.**\*, Dunham, J.\*, Dai, Y., Faccio, F., Feron, F., & Schmidhuber, J. (2024). *Towards an Extremely Robust Baby Robot With Rich Interaction Ability for Advanced Machine Learning Algorithms.* arXiv. https://arxiv.org/abs/2404.08093

  Submitted to the 2025 IEEE International Conference on Robotics & Automation (ICRA). Previously presented as a late-breaking result at the 2024 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS).
- Stanic, A.\*, **Ashley, D.**, Serikov, O., Kirsch, L., Faccio, F., Schmidhuber, J., Hofmann, T., & Schlag, I.\* (2023). *The languini kitchen: Enabling language modelling research at different scales of compute.* arXiv. https://arxiv.org/abs/2309.11197
- **Ashley, D. R.**, Arulkumaran, K., Schmidhuber, J., & Srivastava, R. K. (2022). *Learning Relative Return Policies With Upside-Down Reinforcement Learning*. arXiv. https://arxiv.org/abs/2202.12742
  - Presented at the 2022 Multidisciplinary Conference on Reinforcement Learning and Decision Making (RLDM).
- **Ashley, D. R.**, Ghiassian, S., & Sutton, R. S. (2021). *Does the Adam optimizer exacerbate catastrophic forgetting?* arXiv. https://arxiv.org/abs/2102.07686
- Ma, C., **Ashley, D. R.**, Wen, J., & Bengio, Y. (2020). *Universal successor features for transfer reinforcement learning*. arXiv. https://arxiv.org/abs/2001.04025

\* equal contribution

#### PEER-REVIEWED PUBLICATIONS

- **Ashley, D. R.\***, Herrmann, V.\*, Friggstad, Z., & Schmidhuber, J. (2024). On narrative information and the distillation of stories. *IEEE Transactions on Pattern Analysis and Machine Intelligence* (IF 20.8).
  - In press. Early preprint available at https://arxiv.org/abs/2211.12423. Previously presented at the NeurIPS 2023 Workshop on Machine Learning for Creativity and Design and at the NeurIPS 2022 Workshop Information-Theoretic Principles in Cognitive Systems.
- Zhuge, M.\*, Liu, H.\*, Faccio, F.\*, **Ashley, D. R.**\*, Csordas, R., Gopalakrishnan, A., Hamdi, A., Hammoud, H. A. A. K., Herrmann, V., Irie, K., Kirsch, L., Li, B., Li, G., Liu, S., Mai, J., Piekos, P., Ramesh, A., Schlag, I., Shi, W., Stanic, A., Wang, W., Wang, Y., Xu, M., Fan, D.-P., Ghanem, B., & Schmidhuber, J. (2024). Mindstorms in natural language-based societies of mind. *Computational Visual Media* (IF 17.3).

- In press. Early preprint available at https://arxiv.org/abs/2305.17066. Previously presented at the NeurIPS 2023 Workshop on Robustness of Zero/Few-Shot Learning in Foundation Models (Best-paper Award).
- Štrupl, M., Faccio, F., **Ashley, D. R.**, Srivastava, R. K., & Schmidhuber, J. (2022). Reward-Weighted Regression Converges to a Global Optimum. *Proceedings of the Thirty-Sixth AAAI Conference on Artificial Intelligence*, 8361–8369. https://doi.org/10.1609/aaai.v36i8.20811
- Ashley, D. R. (2020). Understanding Forgetting in Artificial Neural Networks [Master's thesis, University of Alberta]. University of Alberta Education and Research Archive. https://doi.org/10.7939/r3-6zvv-5z64
- **Ashley, D. R.\***, Chockalingam, V.\*, Kuzma, B.\*, & Bulitko, V. (2019). Learning to Select Mates in Evolving Non-playable Characters. *Proceedings of the 2019 IEEE Conference on Games*, 1–8. https://doi.org/10.1109/CIG.2019.8848114
- **Ashley, D. R.\***, Chockalingam, V.\*, Kuzma, B.\*, & Bulitko, V. (2019). Learning to Select Mates in Artificial Life. *Proceedings of the Genetic and Evolutionary Computation Conference Companion*, 103–104. https://doi.org/10.1145/3319619.3322060
- Sherstan, C., **Ashley, D. R.**\*, Bennett, B.\*, Young, K., White, A., White, M., & Sutton, R. S. (2018). Comparing Direct and Indirect Temporal-Difference Methods for Estimating the Variance of the Return. *Proceedings of the 34th Conference on Uncertainty in Artificial Intelligence*, 63–72. http://auai.org/uai2018/proceedings/papers/35.pdf
- Amaral, J. N., Borin, E., **Ashley, D. R.**, Benedicto, C., Colp, E., Hoffmam, J. H. S., Karpoff, M., Ochoa, E., Redshaw, M., & Rodrigues, R. E. (2018). The Alberta Workloads for the SPEC CPU 2017 Benchmark Suite. *Proceedings of the 2018 IEEE International Symposium on Performance Analysis of Systems and Software*, 159–168. https://doi.org/10.1109/IS PASS.2018.00029

\* equal contribution

#### **HONORS AND AWARDS**

Queen Elizabeth II Graduate Scholarship, University of Alberta (C\$10,800)	2018
CGS-M, Natural Science and Engineering Research Council of Canada (C\$17,500)	2017
Walter H. Johns Graduate Fellowship, University of Alberta (C\$5,800)	2017
Science Graduate Scholarship, University of Alberta (C\$2,000)	2017
Kao Family Eisenco Scholarship, University of Alberta (C\$1,200)	2016
Jason Lang Scholarship, University of Alberta (C\$1,000)	2015
Suncor Energy Scholarship, Suncor Energy (C\$1,800)	2015
Jason Lang Scholarship, University of Alberta (C\$1,000)	2014
Suncor Energy Scholarship, Suncor Energy (C\$1,800)	2014
COMMUNITY SERVICE	
Program Committee, European Workshop on Reinforcement Learning	2023
Faculty of Informatics Council, Università della Svizzera italiana	2022 - 2023
Mentoring Award Adjudication Panel, University of Alberta	2020
Equity, Diversity, and Inclusion Council, Alberta Machine Intelligence Institute	2019 – 2020
Volunteer, Campus Food Bank	2019

Nominating Committee, Graduate Students' Association  2018 – 2019 Council, Graduate Students' Association  2018 – 2020  TEACHING  Teaching Assistant, Machine Learning 2021 Teaching Assistant, Machine Learning 2022 Teaching Assistant, Machine Learning 2022 Teaching Assistant, Algorithms & Data Structures 2022 Teaching Assistant, Machine Learning 2021 Teaching Assistant, Machine Learning 2021 Teaching Assistant, Introduction to File and Database Management 2015 SUPERVISING  Jacopo di Ventura, M.Sc. Student 2023 – 2024 James Jewitt, High School Intern 2015  REVIEWING  International Conference on Learning Representations 2025 European Workshop on Reinforcement Learning 2024 NeurIPS Workshop on Aligning RL Experimentalists and Theorists 2024 Machine Learning 2024 Machine Learning 2024 ICML Workshop on Interactive Learning with Implicit Human Feedback Machine Learning 2023 NeurIPS Workshop on Reinforcement Learning for Real Life Workshop 2023 NeurIPS Workshop on Reinforcement Learning for Real Life Workshop 2022 European Workshop on Reinforcement Learning 2024 PROFESSIONAL MEMBERSHIP  Association for Computing Machinery Since 2014 Association for the Advancement of Artificial Intelligence Since 2018	Faculty of Graduate Studies and Research Council, University of Alberta	2018 – 2019
Council, Graduate Students' Association  TEACHING  Teaching Assistant, Machine Learning 2024 Teaching Assistant, Machine Learning 2022 Teaching Assistant, Machine Learning 2022 Teaching Assistant, Machine Learning 2022 Teaching Assistant, Algorithms & Data Structures 2022 Teaching Assistant, Introduction to File and Database Management 2025 Teaching Assistant, Introduction to File and Database Management 2025 SUPERVISING  Jacopo di Ventura, M.Sc. Student 2025 Teavily Servite Wing International Conference on Learning Representations 2025 European Workshop on Reinforcement Learning 2024 NeurIPS Workshop on Aligning RL Experimentalists and Theorists 2024 International Conference on Artificial Neural Networks 2024 Machine Learning 2023 Machine Learning 2024 Machine Learning 2023 NeurIPS Workshop on Interactive Learning with Implicit Human Feedback 2023 Machine Learning 2023 NeurIPS Workshop on Reinforcement Learning for Real Life Workshop 2022 European Workshop on Reinforcement Learning for Real Life Workshop 2022 PROFESSIONAL MEMBERSHIP  Association for Computing Machinery Since 2014 Association for Computing Machinery Association for the Advancement of Artificial Intelligence Institute of Electrical and Electronics Engineers  English: Native Speaker French: Moderate Fluency Italian: Some Knowledge	Board, Graduate Students' Association	2018 – 2019
TEACHING  Teaching Assistant, Machine Learning Teaching Assistant, Machine Learning Teaching Assistant, Machine Learning Teaching Assistant, Machine Learning Teaching Assistant, Algorithms & Data Structures Teaching Assistant, Algorithms & Data Structures Teaching Assistant, Machine Learning Teaching Assistant, Introduction to File and Database Management Teaching Assistant, Machine Learning Representations Teaching Assistant, Machin	Nominating Committee, Graduate Students' Association	2018 – 2019
Teaching Assistant, Machine Learning Teaching Assistant, Machine Learning Teaching Assistant, Machine Learning Teaching Assistant, Machine Learning Teaching Assistant, Algorithms & Data Structures 2022 Teaching Assistant, Machine Learning 2021 Teaching Assistant, Introduction to File and Database Management 2015 SUPERVISING  Jacopo di Ventura, M.Sc. Student James Jewitt, High School Intern 2015 REVIEWING  International Conference on Learning Representations European Workshop on Reinforcement Learning NeurIPS Workshop on Aligning RL Experimentalists and Theorists International Conference on Artificial Neural Networks 2024 Machine Learning 1CML Workshop on Interactive Learning with Implicit Human Feedback Machine Learning NeurIPS Workshop on Reinforcement Learning in Cognitive Systems NeurIPS Workshop on Reinforcement Learning for Real Life Workshop 2022 European Workshop on Reinforcement Learning for Real Life Workshop 2022 PROFESSIONAL MEMBERSHIP Association for Computing Machinery Association for Computing Machinery Association for the Advancement of Artificial Intelligence Institute of Electrical and Electronics Engineers Since 2019 LANGUAGES English: Native Speaker French: Moderate Fluency Italian: Some Knowledge	Council, Graduate Students' Association	2018 – 2020
Teaching Assistant, Machine Learning 2022 Teaching Assistant, Machine Learning 2022 Teaching Assistant, Algorithms & Data Structures 2022 Teaching Assistant, Machine Learning 2021 Teaching Assistant, Introduction to File and Database Management 2015 SUPERVISING  Jacopo di Ventura, M.Sc. Student 2023 – 2024 James Jewitt, High School Intern 2015 REVIEWING International Conference on Learning Representations 2025 European Workshop on Reinforcement Learning 2024 NeurIPS Workshop on Aligning RL Experimentalists and Theorists 2024 International Conference on Artificial Neural Networks 2024 Machine Learning 2024 ICML Workshop on Interactive Learning with Implicit Human Feedback 2023 Machine Learning 2024 Machine Learning 2023 NeurIPS Workshop on Reinforcement Learning for Real Life Workshop 2022 European Workshop on Reinforcement Learning for Real Life Workshop 2022 PROFESSIONAL MEMBERSHIP Association for Computing Machinery Since 2014 Association for Computing Machinery Since 2018 Institute of Electrical and Electronics Engineers Since 2019 LANGUAGES English: Native Speaker French: Moderate Fluency Italian: Some Knowledge	TEACHING	
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Teaching Assistant, Algorithms & Data Structures Teaching Assistant, Machine Learning Teaching Assistant, Introduction to File and Database Management  2015 SUPERVISING Jacopo di Ventura, M.Sc. Student James Jewitt, High School Intern  2025 REVIEWING International Conference on Learning Representations European Workshop on Reinforcement Learning NeurIPS Workshop on Aligning RL Experimentalists and Theorists Locate Machine Learning Locate Machine Membership Lassociation for Computing Machinery Association for Computing Machinery Association for Computing Machinery Languages Languages Languages English: Native Speaker French: Moderate Fluency Italian: Some Knowledge	Teaching Assistant, Machine Learning	2023
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Teaching Assistant, Introduction to File and Database Management  SUPERVISING  Jacopo di Ventura, M.Sc. Student James Jewitt, High School Intern  2023 – 2024  James Jewitt, High School Intern  2015  REVIEWING  International Conference on Learning Representations 2025 European Workshop on Reinforcement Learning 2024 NeurIPS Workshop on Aligning RL Experimentalists and Theorists 2024 International Conference on Artificial Neural Networks 2024 Machine Learning 2024 ICML Workshop on Interactive Learning with Implicit Human Feedback 2023 Machine Learning 2024 NeurIPS Workshop on Information-Theoretic Principles in Cognitive Systems 2022 NeurIPS Workshop on Reinforcement Learning for Real Life Workshop 2022 European Workshop on Reinforcement Learning 2022  PROFESSIONAL MEMBERSHIP  Association for Computing Machinery Association for the Advancement of Artificial Intelligence Institute of Electrical and Electronics Engineers  English: Native Speaker French: Moderate Fluency Italian: Some Knowledge	Teaching Assistant, Algorithms & Data Structures	2022
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Association for Computing Machinery  Association for the Advancement of Artificial Intelligence Institute of Electrical and Electronics Engineers  Since 2018  English: Native Speaker  French: Moderate Fluency  Italian: Some Knowledge	European Workshop on Reinforcement Learning	2022
Association for the Advancement of Artificial Intelligence Institute of Electrical and Electronics Engineers Since 2019  LANGUAGES  English: Native Speaker French: Moderate Fluency Italian: Some Knowledge	PROFESSIONAL MEMBERSHIP	
Institute of Electrical and Electronics Engineers  LANGUAGES  English: Native Speaker  French: Moderate Fluency  Italian: Some Knowledge	Association for Computing Machinery	Since 2014
LANGUAGES  English: Native Speaker  French: Moderate Fluency  Italian: Some Knowledge	Association for the Advancement of Artificial Intelligence	Since 2018
English: Native Speaker French: Moderate Fluency Italian: Some Knowledge	Institute of Electrical and Electronics Engineers	Since 2019
French: Moderate Fluency  Italian: Some Knowledge	LANGUAGES	
Italian: Some Knowledge	English: Native Speaker	
	French: Moderate Fluency	
Mandarin: Some Knowledge	Italian: Some Knowledge	
	Mandarin: Some Knowledge	
CITIZENSHIP AND RESIDENCE	CITIZENSHIP AND RESIDENCE	

Canada: Citizen
South Africa: Citizen
Switzerland: B Permit

# REFERENCES AVAILABLE ON REQUEST