

Jiuqi Wang

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EDUCATION

University of Virginia

Ph.D. Computer Science

Advisor: Shangtong Zhang

Aug. 2023 - May. 2028

Charlottesville, Virginia

University of Alberta

MSc. Computing Science (Thesis)

Co-Supervisors: Martin Müller and Jonathan Schaeffer

Sep. 2021 - Jun. 2023

Edmonton, Alberta

McGill University

BSc. Honours Computer Science

Distinction, First-Class Honours

Sep. 2017 - Jun. 2021

Montréal, Québec

RESEARCH INTERESTS

Reinforcement Learning, In-Context Learning, Agentic Systems

RESEARCH EXPERIENCE

Graduate Research Assistant

Advised by Prof. Shangtong Zhang

Aug. 2023 - present

Charlottesville, Virginia

- Develop theories and applications of reinforcement learning for solving sequential decision-making problems.
- Recent works focus on in-context reinforcement learning. Please see [Publications](#) for more detail.

Master's Thesis

Co-Supervised by Prof. Martin Müller and Jonathan Schaeffer

May 2022 - June 2023

Edmonton, Alberta

- **Title:** [Deep Dive on Checkers Endgame Data](#)
- Investigated if end-to-end training of the neural networks on game-theoretic outcomes of the board positions in the game of checkers(draughts) can achieve knowledge compression and transfer.
- Designed and implemented the models and experiment pipeline using JAX and Haiku.
- Accepted to IEEE Conference on Games (CoG), 2023 as a [full paper](#).

Undergraduate Research

Supervised by Prof. Hsiu-chin Lin

May 2020 - Sep. 2020

Montréal, Québec

- **Topic:** *Sim-to-Real Transfer Learning of Time-Invariant Linear Parameter-Varying Dynamical Systems from Gaussian Mixture Models*
- Reviewed relevant literature on dynamical systems and transfer learning.
- Implemented the learning algorithm in NumPy.
- Conducted experiments on benchmark datasets.
- Developed and studied an adaptive re-training procedure that increases the algorithm's robustness under noisy data.

TEACHING EXPERIENCE

Teaching Assistant

Reinforcement Learning

Sep. 2024 - Dec. 2024

Charlottesville, Virginia

- Hosted office hours to provide academic support and facilitate student learning.
- Graded homeworks.

Teaching Assistant

Search, Knowledge and Simulations

Jan. 2022 - Apr. 2022

Edmonton, Alberta

- Prepared the starter code of the assignments for the students and the scripts for grading the assignments.
- Monitored and graded the final project, where each student group developed a game-playing agent and competed with each other in a tournament.

Teaching Assistant

Intro to the Foundations of Computation I

Sep. 2021 - Dec. 2021

Edmonton, Alberta

- Held labs with other TAs to review and complement the materials covered in lectures.
- Graded student assignments.

Teaching Assistant

Intro to Computer Science

Jan. 2020 - May 2020

Montréal, Québec

- Prepared original weekly quiz questions for the course.
- Held office hours to answer questions from students.

PROFESSIONAL EXPERIENCE

Research Scientist Intern

Pokee AI

June 2025 – present

Remote

- Developing Pokee's deep research agent from ideation to implementation.

AI-SCORE 2024

University of Maryland

May 2024 – Jun. 2024

College Park, Maryland

- One of the 30 selected Ph.D. students to participate in the inaugural [AI-SCORE](#) summer school where students and scholars from the artificial intelligence and operations research communities join to discuss interdisciplinary research.
- Attended lectures and panel discussions and exchanged ideas with fellow students from both disciplines.

Development Intern

PTC Inc.

May 2021 – Jul. 2021

Suzhou, China

- Worked on product internationalization using the i18next framework that translates the originally hard-coded English webpages to the selected language.
- Troubleshooted several front-end issues.

VOLUNTEERING EXPERIENCE

High School Mentor

Charlottesville High School

Sep. 2024 - Dec. 2024

Charlottesville, Virginia

- Matched with one of the teams in the engineering class of CHS.
- Advised the team with their semester-long final engineering project.
- Held weekly meetings with the team to keep track of the progress and assisted troubleshooting.

PUBLICATIONS

* indicates equal contribution; † indicates advisor

1. [Towards Provable Emergence of In-Context Reinforcement Learning](#)
Jiuqi Wang, Rohan Chandra, Shangdong Zhang[†]
Poster at Neural Information Processing Systems (**NeurIPS**), 2025
2. [Experience Replay Addresses Loss of Plasticity in Continual Learning](#)
Jiuqi Wang, Rohan Chandra, Shangdong Zhang[†]
arXiv preprint arXiv:2503.20018, 2025.
3. [A Survey of In-Context Reinforcement Learning](#)
Amir Moeini, **Jiuqi Wang**, Jacob Beck, Ethan Blaser, Shimon Whiteson, Rohan Chandra, Shangdong Zhang[†]
arXiv preprint arXiv:2502.07978, 2025.
4. [Almost Sure Convergence of Linear Temporal Difference Learning with Arbitrary Features](#)
Jiuqi Wang, Shangdong Zhang[†]
arXiv preprint arXiv:2409.12135, 2024.
5. [Transformers Learn Temporal Difference Methods for In-Context Reinforcement Learning](#)
Jiuqi Wang^{*}, Ethan Blaser^{*}, Hadi Daneshmand, Shangdong Zhang[†]
Poster at International Conference on Learning Representations (**ICLR**), 2025
Contributed Talk at the Reinforcement Learning Conference (**RLC**) Workshop on Training Agents with Foundation Models, 2024
Spotlight Award at the International Conference on Machine Learning (**ICML**) Workshop on In-Context Learning, 2024
6. [Deep Dive on Checkers Endgame Data](#)
Jiuqi Wang, Martin Müller[†], Jonathan Schaeffer[†]
IEEE Conference on Games (**CoG**), 2023

PEER REVIEW

- IEEE Transactions on Artificial Intelligence (TAI) 2025
- Neural Information Processing Systems (NeurIPS) 2025
- International Conference on Machine Learning (ICML) 2025
- Reinforcement Learning Conference (RLC) 2025
- International Joint Conferences on Artificial Intelligence (IJCAI) 2025
- International Conference on Artificial Intelligence and Statistics (AISTATS) 2025
([Best Reviewer Award](#))
- International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2025
- International Conference on Learning Representations (ICLR) 2025
- Asian Conference on Machine Learning (ACML) 2024
- Reinforcement Learning Conference (RLC) 2024
- International Conference on Artificial Intelligence and Statistics (AISTATS) 2024
- International Conference on Learning Representations (ICLR) 2024

HONORS AND AWARDS

IEEE CIS Travel Grant <i>\$500</i>	<i>Jul. 2023</i> IEEE CIS
GSA Academic Travel Grant <i>\$500</i>	<i>Jul. 2023</i> University of Alberta
Science Undergraduate Research Award (SURA) <i>\$7,000</i>	<i>May 2020</i> McGill University
Dean's Honour List	<i>Aug. 2018</i> McGill University
Faculty of Science Scholarship <i>\$500</i>	<i>Jul. 2018</i> McGill University
Complementary Award <i>\$3,000</i>	<i>Sep. 2017</i> McGill University
Hugh Brock Scholarship <i>\$3,000</i>	<i>Jul. 2017</i> McGill University

SKILLS

- **Technology:** Python(NumPy, Matplotlib, Jupyter Notebook, PyTorch, JAX) (advanced), Java (intermediate), Git (intermediate), Linux (intermediate), \LaTeX (advanced)
- **Knowledge:** Statistical Machine Learning (advanced), Deep Learning (advanced), (Deep) Reinforcement Learning (advanced), Heuristic Search (advanced), Robotics (intermediate)
- **Language:** English(proficient), Mandarin(native), French(elementary)