

# Jiuqi Wang

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## EDUCATION

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### University of Virginia

*Ph.D. Computer Science*

Advisor: Shangtong Zhang

*Aug. 2023 - present*  
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

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Reinforcement Learning, In-Context Learning, LLM-powered Agent Systems

## PUBLICATIONS

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\* indicates equal contribution; † indicates advisor

### PEER-REVIEWED

1. [Towards Provable Emergence of In-Context Reinforcement Learning](#)  
**Jiuqi Wang**, Rohan Chandra, Shangtong Zhang<sup>†</sup>  
Poster at **Neural Information Processing Systems (NeurIPS)**, 2025
2. [Transformers Learn Temporal Difference Methods for In-Context Reinforcement Learning](#)  
**Jiuqi Wang**<sup>\*</sup>, Ethan Blaser<sup>\*</sup>, Hadi Daneshmand, Shangtong Zhang<sup>†</sup>  
Poster at **International Conference on Learning Representations (ICLR)**, 2025  
Contributed Talk at the **RLC Workshop on Training Agents with Foundation Models**, 2024  
Spotlight Award at the **ICML Workshop on In-Context Learning**, 2024
3. [Deep Dive on Checkers Endgame Data](#)  
**Jiuqi Wang**, Martin Müller<sup>†</sup>, Jonathan Schaeffer<sup>†</sup>  
Oral presentation at **IEEE Conference on Games (CoG)**, 2023

### TECHNICAL REPORT

1. [PokeeResearch: Effective Deep Research via Reinforcement Learning from AI Feedback and Robust Reasoning Scaffold](#)  
Yi Wan<sup>\*</sup>, **Jiuqi Wang**<sup>\*</sup>, Liam Li, Jinsong Liu, Ruihao Zhu, Zheqing Zhu  
Technical Report, Pokee AI, 2025. [arXiv:2510.15862](https://arxiv.org/abs/2510.15862).  
Widely adopted open-source release accompanying the technical report.

### PREPRINT

1. [Experience Replay Addresses Loss of Plasticity in Continual Learning](#)  
**Jiuqi Wang**, Rohan Chandra, Shangtong Zhang<sup>†</sup>  
[arXiv:2503.20018](https://arxiv.org/abs/2503.20018), 2025.
2. [A Survey of In-Context Reinforcement Learning](#)  
Amir Moeini, **Jiuqi Wang**, Jacob Beck, Ethan Blaser, Shimon Whiteson, Rohan Chandra, Shangtong Zhang<sup>†</sup>  
[arXiv:2502.07978](https://arxiv.org/abs/2502.07978), 2025.
3. [Almost Sure Convergence of Linear Temporal Difference Learning with Arbitrary Features](#)  
**Jiuqi Wang**, Shangtong Zhang<sup>†</sup>  
[arXiv:2409.12135](https://arxiv.org/abs/2409.12135), 2024.

## RESEARCH & PROFESSIONAL EXPERIENCE

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### Research Scientist Intern

Pokee AI

Jun. 2025 – present

Remote

- Co-led the [PokeeResearch-7B](#) open-source project end-to-end.
- Leveraged [verl](#) to efficiently RL-fine-tune and experiment with PokeeResearch-7B.
- Developed tool-server infrastructure and tool-calling schema to support web search and content retrieval.
- Built deployment tools (CLI + [Gradio](#)) for model accessibility and evaluation automation.
- Achieved state-of-the-art performance among 7B-class models on a range of modern benchmarks; 400+ stars & 250+ forks on GitHub within 48 hours of release.

### Graduate Research Assistant

Advised by Prof. Shangtong Zhang

Aug. 2023 - present

Charlottesville, Virginia

- Developed theoretical foundations for In-Context Reinforcement Learning (ICRL) in Transformers, resulting in two accepted conference papers.
- Proved almost-sure convergence of TD learning with arbitrary features; journal paper currently under review.

### Master's Thesis – Deep Dive on Checkers Endgame Data

Co-Supervised by Prof. Martin Müller and Jonathan Schaeffer

May 2022 - Jun. 2023

Edmonton, Alberta

- Designed neural network and training pipeline for knowledge compression of checkers endgame data with JAX/Haiku.
- Published as a full paper (oral presentation) at CoG, 2023.

### Development Intern

PTC Inc.

May 2021 – Jul. 2021

Suzhou, China

- Improved product internationalization by integrating i18next for multi-language support.

### Undergraduate Research

Supervised by Prof. Hsiu-chin Lin

May 2020 - Sep. 2020

Montréal, Québec

- Built and evaluated sim-to-real transfer learning for LPV dynamical systems using Gaussian Mixture Models.
- Developed adaptive retraining procedure to improve robustness in learning with noisy data.

## TEACHING ASSISTANTSHIPS

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- *Reinforcement Learning (Fall 2024, University of Virginia)*: hosted office hours and graded assignments.
- *Search, Knowledge and Simulations (Spring 2022, University of Alberta)*: prepared assignment starter code and auto-grading scripts; organized and evaluated the final project (game-playing agent tournament).
- *Intro to the Foundations of Computation I (Fall 2021, University of Alberta)*: held lab sessions to review and complement the course material.
- *Intro to Computer Science (Spring 2020, McGill University)*: prepared original weekly quiz questions.

## VOLUNTEERING EXPERIENCE

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### High School Mentor

Charlottesville High School

Sep. 2024 - Dec. 2024

Charlottesville, Virginia

- Matched with a team in the senior engineering class and advised their final engineering project.
- Held weekly meetings with the team to keep up with the progress and assisted troubleshooting.

## PEER REVIEW

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NeurIPS (2025), ICML (2024–2025), ICLR (2024–2026), AISTATS (2024–2026), IJCAI (2025), AAMAS (2025–2026), ACML (2024), RLC (2024–2025)

## HONORS AND AWARDS

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<b>Best Reviewer Award</b>	<i>Apr. 2025</i> AISTATS
<b>AI-SCORE Summer School Fellow</b> <i>\$900</i>	<i>May 2024</i> University of Maryland, College Park
<b>IEEE CIS Travel Grant</b> <i>\$500</i>	<i>Jul. 2023</i> IEEE CIS
<b>GSA Academic Travel Grant</b> <i>\$500</i>	<i>Jul. 2023</i> University of Alberta
<b>Science Undergraduate Research Award (SURA)</b> <i>\$7,000</i>	<i>May 2020</i> McGill University
<b>Dean's Honour List</b>	<i>Aug. 2018</i> McGill University
<b>Merit-Based Undergraduate Scholarships (Condensed)</b> <i>\$6,500</i>	<i>Jul. 2017 – Jul. 2018</i> McGill University

## SKILLS

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- **Technology:** Python (NumPy, PyTorch, JAX, vLLM, Gradio), Java, Git/GitHub, Docker, Linux, Weights & Biases, Huggingface, L<sup>A</sup>T<sub>E</sub>X
- **Knowledge:** Statistical Machine Learning, Deep Learning, (Deep) Reinforcement Learning, Heuristic Search, Robotics
- **Language:** English (proficient), Mandarin (native), French (basic)