# Jiuqi Wang

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## EDUCATION

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| *Aug. 2023 - May. 2028*<br>Charlottesville, the United States | **University of Virginia**<br>*Ph.D. Computer Science*<br>*Advisor: Shangtong Zhang* |
| *Sep. 2021 - Jun. 2023*<br>Edmonton, Canada | **University of Alberta**<br>*MSc. Computing Science (Thesis)*<br>*Co-Supervisors: Martin Müller and Jonathan Schaeffer* |
| *Sep. 2017 - Jun. 2021*<br>Montréal, Canada | **McGill University**<br>*BSc. Honours Computer Science*<br>*Distinction, First-Class Honours* |

## RESEARCH INTERESTS

Sequential Decision Making under Uncertainty, Reinforcement Learning , Deep Learning, Stochastic Approximation

## RESEARCH EXPERIENCE

*May 2022 - June 2023*                                          **Master's Thesis**
Edmonton, Canada          *Co-Supervised by Prof. Martin Müller and Jonathan Schaeffer*

- **Objective:** learn Chinook Checkers database to achieve compression and pattern recognition using deep neural networks and search
- developed the data processing pipeline that transforms raw byte representation of states into tensors
- designed and implemented the neural networks in JAX
- designed the experiment pipeline that is flexible and scalable for different configurations
- results accepted as a full paper at IEEE Conference on Games 2023

*May 2020 - Sep. 2020*                                    **Undergraduate Research**
Montréal, Canada                              *Supervised by Prof. Hsiu-chin Lin*

- **Topic:** *Sim-to-Real Transfer Learning of Time-Invariant Linear Parameter-Varying Dynamical Systems from Gaussian Mixture Models*
- reviewed relevant literature
- implemented the learning algorithm using NumPy
- performed experiments on benchmark datasets
- implemented and studied an adaptive re-training mechanism that increases the algorithm's robustness under noisy demonstration data

## TEACHING EXPERIENCE

*Jan. 2022 - Apr. 2022*                                      **Teaching Assistant**
Edmonton, Canada                              *Search, Knowledge and Simulations*

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| *Sep. 2021 - Dec. 2021* | **Teaching Assistant** |
| Edmonton, Canada | *Intro to the Foundations of Computation I* |
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| *Jan. 2020 - May 2020* | **Teaching Assistant** |
| Montréal, Canada | *Intro to Computer Science* |

## Work Experience

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| *May 2021 - Jul. 2021* | **Development Intern** |
| Suzhou, China | *PTC Inc.* |

- helped internationalize the product using the library I18next
- resolved various front-end issues

## Skills

- **Technology:** Python(NumPy, Pandas, Matplotlib, Jupyter Notebook, PyTorch, JAX), Java, Git, Linux, LaTeX
- **Knowledge:** Statistical Machine Learning, Deep Learning, (Deep) Reinforcement Learning, Heuristic Search, Robotics

## Honors and Awards

- IEEE CIS Travel Grant *July 2023, IEEE CIS* ($500)
- GSA Academic Travel Grant *July 2023, University of Alberta* ($ 500)
- Science Undergraduate Research Award (SURA) *May 2020, McGill University* ($ 7,000)
- Dean's Honour List *August 2018, McGill University*
- Faculty of Science Scholarship *July 2018, McGill University* ($ 500)
- Complementary Award *Sept. 2017, McGill University* ($ 3,000)
- Hugh Brock Scholarship *July 2017, McGill University* ($ 3,000)

## Languages

- English – proficient in working and research settings
- Mandarin Chinese – native speaker
- French – elementary proficiency