

Jiuqi Wang

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EDUCATION

Aug. 2023 - May. 2028

Charlottesville, the United States

University of Virginia

Ph.D. Computer Science

Advisor: Shangdong Zhang

Sep. 2021 - Jun. 2023

Edmonton, Canada

University of Alberta

MSc. Computing Science (Thesis)

Co-Supervisors: Martin Müller and Jonathan Schaeffer

Sep. 2017 - Jun. 2021

Montréal, Canada

McGill University

BSc. Honours Computer Science

Distinction, First-Class Honours

RESEARCH INTERESTS

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

RESEARCH EXPERIENCE

May 2022 - June 2023

Edmonton, Canada

Master's Thesis

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

Montréal, Canada

Undergraduate Research

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

Edmonton, Canada

Teaching Assistant

Search, Knowledge and Simulations

Sep. 2021 - Dec. 2021
Edmonton, Canada

Teaching Assistant
Intro to the Foundations of Computation I

Jan. 2020 - May 2020
Montréal, Canada

Teaching Assistant
Intro to Computer Science

WORK EXPERIENCE

May 2021 - Jul. 2021
Suzhou, China

Development Intern
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, L^AT_EX
- **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