

RESEARCH INTERESTS

I am broadly interested in **reinforcement learning** as an approach to building autonomous agents. I am currently working on the problem of sample-efficient reinforcement learning with a focus on **model-based RL** techniques.

PUBLICATIONS

- Y Pan, M Zaheer, A White, A Patterson, M White. **Organizing Experience: A Deeper Look at Replay Mechanisms for Sample-based Planning in Continuous State Domains**. International Joint Conference on Artificial Intelligence (IJCAI), 2018
- Y Wan*, M Zaheer*, M White, RS Sutton. **Model-based Reinforcement Learning with Non-linear Expectation Models and Stochastic Environments**. ICML Workshop on Prediction and Generative Modeling in Reinforcement Learning, 2018

EDUCATION

	University of Alberta	Sep 2017 – Present
M.S. Computer Science		
• Cumulative GPA: 4.00/4.00		
• Supervisors: Professor Martha White & Erik Talvitie		
B.S. Computer Science	NUST	Sep 2012 – Jun 2017
• Cumulative GPA: 4.00/4.00		
Relevant Courses		
• Reinforcement Learning	• Machine Learning	• Algorithm Design & Analysis
• Artificial Intelligence	• Optimization Principles for RL	• Operating Systems

EMPLOYMENT

Research Assistant	University of Alberta	May 2018 – Present
Reinforcement Learning and Artificial Intelligence (RLAI) Lab		
Graduate Teaching Assistant	University of Alberta	Sep 2017 – Apr 2018
Course: Introduction to the Foundation of Computation - II		
Research Intern	NUST	Jul 2016 – May 2017
Computer Vision group		
Research Intern	EPFL, Switzerland	Jul 2015 - Sep 2015
Distributed Information Systems Laboratory (LSIR)		

AWARDS AND HONORS

- **Canadian Undergraduate Fellowship**: Awarded to only 1 undergraduate student from each batch
- **Academic Distinction**: Awarded for graduating with a CGPA of 4.0 out of 4.0
- **Best Final Year Project**: Awarded to only 1 student project in the graduating cohort
- **Global-UGRAD exchange scholarship**: Awarded by US Dept. of State (3% acceptance rate)
- **ITCSC-INC Winter School**: Organized by The Chinese University of Hong Kong (Selection and Travel Grant)

TECHNICAL SKILLS

- Technologies: C/C++, Java, Python, Bash, PyTorch, TensorFlow