

Curriculum Vitae – Zirui Zhao

CONTACT	School of Computing National University of Singapore 13 Computing Drive, Singapore 117417	Email: ziruiz@comp.nus.edu.sg GitHub: 1989Ryan Phone: (+65) 9355-3852
EDUCATION	Doctor of Philosophy (Ph.D.) in Computer Science National University of Singapore, Singapore Advisor: Prof. Wee Sun Lee & Prof. David Hsu	Aug 2020 - Present
	Bachelor of Engineering (B.Eng.) in Automation (Qian Xuesen Elite Program) 2016 - Jun 2020 Xi'an Jiaotong University, Xi'an, China	GPA: 90.42/100
VISITING	Undergraduate Research Intern at Safe AI Lab Carnegie Mellon University, Pittsburgh, USA	Jul 2019 - Sep 2019 Advisor: Prof. Ding Zhao
INTERESTS	Decision-making under uncertainty; Probabilistic graphical models; Planning with Large Language Models; Robotics.	
SKILLS	Languages: Python, C++, MATLAB, \LaTeX . Application Tools: TensorFlow, PyTorch, Keras, Scikit, Numpy, Jupyter, ROS. Software: Carla, GitLab, GitHub.	
AWARDS	<ul style="list-style-type: none">• Research Achievement Award School of Computing, NUS, Jan 2024• Teaching Fellowship School of Computing, NUS, Jan 2024• Best Paper Runner-up LTAMP workshop @ Robotics: Science & Systems, 2023• NUS Research Scholarship National University of Singapore, 2020 - 2024• Excellant Graduate Xi'an Jiaotong University, 2020• Dean's List Xi'an Jiaotong University, 2017 & 2018 & 2019• 2nd price – 1989 Mechanical Alumni Scholarship Xi'an Jiaotong University, 2018• Siyuan Merit Scholarship Xi'an Jiaotong University, 2017	
PUBLICATIONS	<ol style="list-style-type: none">[1] Z. Zhao, W. S. Lee, and D. Hsu. "Large Language Models as Commonsense Knowledge for Large-Scale Task Planning". In: <i>Thirty-seventh Conference on Neural Information Processing Systems (NeurIPS)</i>. 2023. URL: https://openreview.net/forum?id=WjplAYB81H.[2] Z. Zhao, W. S. Lee, and D. Hsu. "Differentiable Parsing and Visual Grounding of Natural Language Instructions for Object Placement". In: <i>2023 IEEE International Conference on Robotics and Automation (ICRA)</i>. 2023, pp. 11546–11553. DOI: 10.1109/ICRA48891.2023.10160640.[3] R. Chen, W. Wang, Z. Zhao, and D. Zhao. "Active learning for risk-sensitive inverse reinforcement learning". In: <i>arXiv preprint arXiv:1909.07843</i> (2019).[4] Z. Zhao, Y. Mao, Y. Ding, P. Ren, and N. Zheng. "Visual-based semantic SLAM with landmarks for large-scale outdoor environment". In: <i>2019 2nd China Symposium on Cognitive Computing and Hybrid Intelligence (CCHI)</i>. IEEE. 2019, pp. 149–154.	
TEACHING	CS3263 Foundations of AI Instructor: Prof. Tze-Yun Leong Tutor for course tutorials that cover Logic, Search, CSP, Bayesian Networks, Causal Networks, Markov Decision Process, and Reinforcement Learning. Selected awardee for Teaching Fellowship (top 3 tutors out of all CS PhD students)	Spring 2023, Fall 2023 National University of Singapore