

Zaiyan Xu

Contact Information	Research Assistant ECEN, Texas A&M University	Email: zxu43@tamu.edu Webpage: https://www.zaiyanxu.com
Research Interests	Reinforcement learning, multi-armed bandits	
Education	Texas A&M University , College Station, TX Ph.D. in Electrical Engineering Advisor: Prof. Dileep Kalathil	Aug. 2020 - Present
	University of Illinois at Urbana-Champaign , IL B.S. in Statistics & Computer Science and Actuarial Science Cum Laude, Highest Distinction in CS and Statistics, High Distinction in Actuarial Science	Aug. 2015 - Jul. 2020
Honors and Achievements	<ul style="list-style-type: none">Dept. of Electrical and Computer Engineering Graduate Merit Fellowship, TAMU, 2020Willis Towers Watson Actuarial Science Scholarship, Dept. of Mathematics, UIUC, 2018	
Work Experience	Mitsubishi Electric Research Laboratories , Cambridge, MA Research Intern (Host: Dr. Mouhacine Benosman) Developing safe and distributionally robust RL algorithms and analyzing their statistical efficiency.	May. 2023 - Aug 2023
	National Center for Supercomputing Application , Champaign, IL Undergraduate Researcher (NCSA SPIN Program) Worked on speech recognition and auto-captioning with a focus on engineering lectures. Developed several wrappers for CMU Sphinx engine and streamlined model training process by automating audio slicing, caption partitioning.	Jun. 2019 - May 2020
Publications	<ol style="list-style-type: none">Kishan Panaganti, <u>Zaiyan Xu</u>, Dileep Kalathil, Mohammad Ghavamzadeh. "Bridging Distributionally Robust Learning and Offline RL: An Approach to Mitigate Distribution Shift and Partial Data Coverage", under review, 2023.Kishan Panaganti*, <u>Zaiyan Xu</u>*, Dileep Kalathil. "Distributionally Robust Behavioral Cloning for Robust Imitation Learning", accepted to <i>the 62nd IEEE Conference on Decision and Control</i>, 2023.Zaiyan Xu*, Kishan Panaganti*, Dileep Kalathil. "Improved Sample Complexity Bounds For Distributionally Robust Reinforcement Learning", accepted to <i>International Conference on Artificial Intelligence and Statistics (AISTATS)</i>, 2023.Kishan Panaganti, <u>Zaiyan Xu</u>, Dileep Kalathil, Mohammad Ghavamzadeh. "Robust Reinforcement Learning Using Offline Data", accepted to <i>Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS)</i>, 2022.	
	(* denotes equal contribution)	
Relevant Coursework	Introduction to Classical Analysis (MATH 615) Probability for statistics (STAT 614) Reinforcement Learning (ECEN 689) Applied Convex Optimization (ECEN 629) Real Variables I (MATH 607) Advanced Optimization Techniques and Analysis (ECEN 689)	Analysis for Applications I (MATH 641) Applied Probability (MATH 619) High Dimensional Probability (MATH 689) Stochastic Systems (ECEN 755) Advanced Stochastic Processes (STAT 621)
Professional Services	Conference reviewer: ICLR (2024), NeurIPS (2023 Top Reviewer), ICML (2023), AISTATS (2023, 2024), American Control Conference (2023), IEEE Conference on Decision and Control (2023), L4DC (2023)	

Skills

Languages: Python, C, C++, Java, R, Bash, Assembly, SQL, \LaTeX
Framework: PyTorch, OpenAI Gym

References

Prof. Dileep Kalathil
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