

# Zaiyan Xu

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<b>Contact Information</b>	Research Assistant ECEN, Texas A&M University	Email: <a href="mailto:zxu43@tamu.edu">zxu43@tamu.edu</a> Webpage: <a href="https://www.zaiyanxu.com">https://www.zaiyanxu.com</a>
<b>Research Interests</b>	Reinforcement learning, multi-armed bandits	
<b>Education</b>	<b>Texas A&amp;M University</b> , College Station, TX Ph.D. in Electrical Engineering Advisor: Prof. Dileep Kalathil	Aug. 2020 - Present
	<b>University of Illinois at Urbana-Champaign</b> , 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
<b>Honors and Achievements</b>	<ul style="list-style-type: none"><li>Dept. of Electrical and Computer Engineering Graduate Merit Fellowship, TAMU, 2020</li><li>Willis Towers Watson Actuarial Science Scholarship, Dept. of Mathematics, UIUC, 2018</li></ul>	
<b>Work Experience</b>	<b>Mitsubishi Electric Research Laboratories</b> , Cambridge, MA Research Intern (Host: Dr. Mouhacine Benosman) Developing safe and distributionally robust RL algorithms and analyzing their statistical efficiency.	May. 2023 - Aug 2023
	<b>National Center for Supercomputing Application</b> , 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
<b>Publications</b>	<ol style="list-style-type: none"><li>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.</li><li>Kishan Panaganti, Zaiyan Xu, Dileep Kalathil, Mohammad Ghavamzadeh. "Robust Reinforcement Learning Using Offline Data", accepted to <i>Conference on Neural Information Processing Systems (NeurIPS)</i>, 2022.</li></ol>	
	(* denotes equal contribution)	
<b>Relevant Coursework</b>	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)
<b>Professional Services</b>	Conference reviewer: NeurIPS (2023), ICML (2023), AISTATS (2023), American Control Conference (2023), IEEE Conference on Decision and Control (2023), L4DC (2023)	
<b>Skills</b>	Languages: Python, C, C++, Java, R, Bash, Assembly, SQL, $\LaTeX$ Platforms: PyTorch, OpenAI Gym	
<b>References</b>	Prof. Dileep Kalathil Dept. of Electrical and Computer Engineering Texas A&M University, College Station, TX Email: <a href="mailto:dileep.kalathil@tamu.edu">dileep.kalathil@tamu.edu</a>	