Zhiyu Zhang

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RESEARCH INTEREST

Adaptive online learning, with applications in system control and robotics. The goal is to design theoretically sound and practically useful sequential decision making algorithms that Bayes-optimally exploit offline knowledge, such as domain structures, physical models and deep learning.

Harvard University	09/2023 - Present	
Postdoctoral Fellow	Advisor: Heng Yang	
Education		
Boston University	09/2018 - 08/2023	
PhD, Systems Engineering	Advisor: Ioannis Paschalidis, Ashok Cutkosky	
Tsinghua University BEng, Mechanical Engineering	09/2014 - 06/2018	
Delft University of Technology Exchange Student, Control Engineering	09/2016 - 02/2017	
Publication		
Improving Adaptive Online Learning Using Refine Zhiyu Zhang, Heng Yang, Ashok Cutkosky, Ioannis Paschalie		
Unconstrained Dynamic Regret via Sparse Coding Zhiyu Zhang, Ashok Cutkosky, Ioannis Paschalidis	g NeurIPS'23	
Optimal Comparator Adaptive Online Learning w Zhiyu Zhang, Ashok Cutkosky, Ioannis Paschalidis	rith Switching Cost NeurIPS'22	
PDE-Based Optimal Strategy for Unconstrained Optima	Online Learning <u>ICML'22</u>	
Adversarial Tracking Control via Strongly Adapti Zhiyu Zhang, Ashok Cutkosky, Ioannis Paschalidis	ve Online Learning with Memory AISTATS'22	
Provable Hierarchical Imitation Learning via EM Zhiyu Zhang, Ioannis Paschalidis	AISTATS'21	
Award		
NeurIPS Scholar (Travel Award)	2023	
Multiple Top Reviewer Awards (~10%) AISTATS'22, ICML'22, NeurIPS'22 and '23		
Dean's Fellowship	2018 - 2019	
College of Engineering, Boston University	2014 2017	
Scholarship for Distinction in Academics Tsinghua University	2014 - 2017	
Scholarship for Outstanding Exchange Students China Scholarship Council	2016	

SERVICE

Conference reviewer: AISTATS 2021-2024 (Artificial Intelligence and Statistics), ICML 2022-2023 (International Conference on Machine Learning), NeurIPS 2022-2023 (Conference on Neural Information Processing Systems), ALT 2023 (International Conference on Algorithmic Learning Theory).

Subreviewer: NeurIPS 2020, L4DC 2020 (Learning for Dynamics & Control Conference).

Journal reviewer: IEEE Transactions on Robotics, Journal of Machine Learning Research, Foundations and Trends in Machine Learning.

RESEARCH TALK

Prof. Na Li's group, Harvard University	10/2023
SIAM Student Chapter, Boston University	10/2023 $10/2023$
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Prof. Chuchu Fan's group, MIT	02/2023
CISE Graduate Student Workshop, Boston University	01/2023
Prof. Christos Cassandras' group, Boston University	12/2021
TEACHING AND MENTORING	

Teaching Assistant 2020 - 2021

Boston University

- EK 381: Probability, Statistics, and Data Science for Engineers
- ME 366: Probability and Statistics for Mechanical Engineers
- ME 404: Dynamics and Control of Mechanical Systems

BU RISE program mentor

Summer 2019

Boston University

• Summer research program for high school students.