Zihui (Sherry) Xue

sherryxue@utexas.edu https://zihuixue.github.io GITHUB | SCHOLAR

Education	The University of Texas at Austin , Austin, USA Ph.D. in Electrical and Computer Engineering GPA 4.00/4.00, Advisor: Prof. Kristen Grauman	2020 - Present	
	Fudan University , Shanghai, China B.E. in Electronic and Information Science and Technology GPA: 3.66/4.00, Elite Engineering Program (top 5%)	2016 - 2020	
	University of California, Santa Barbara , Santa Barbara, USA UCEAP Exchange Program GPA: 4.00/4.00, The College of Engineering Dean's Honors List	2018 - 2018	
Research Interests	Computer vision and machine learning Video understanding, egocentric (first-person) vision, multimodal learning		
Research & Internship Experiences	The University of Texas at Austin Research Assistant to Prof. Kristen Grauman	Austin, USA Sep. 2022 - Present	
Experiences	FAIR, Meta AI Visiting Student Researcher	Austin, USA Jan. 2023 - Present	
	FAIR, Meta AI Research Intern to Dr. Lorenzo Torresani	New York, USA May 2022 - Dec. 2022	
	The University of Texas at Austin Research Assistant to Prof. Radu Marculescu	Austin, USA Sep. 2021 - May 2022	
	Shanghai Qi Zhi Institute Research Assistant to Prof. Hang Zhao	Shanghai, China Aug. 2020 - Aug. 2021	
	Fudan University Research Assistant to Prof. Yuedong Xu	Shanghai, China Apr. 2018 - Jun. 2020	
	University of California, Santa Barbara Research Assistant to Prof. Zheng Zhang	Santa Barbara, USA Dec. 2018 - Aug. 2019	
Publications	HOI-Swap: Swapping Objects in Videos with Hand-Object Interaction Awareness NeurIPS, 2024 Zihui Xue, Mi Luo, Changan Chen, Kristen Grauman		
	Put Myself in Your Shoes: Lifting the Egocentric Perspective from Exocentric Videos <i>ECCV, 2024</i> Mi Luo, Zihui Xue , Alex Dimakis, Kristen Grauman		
	Action2Sound: Ambient-Aware Generation of Action Sounds from Egocentric Videos		

ECCV, 2024 (Oral)

Changan Chen*, Puyuan Peng*, Ami Baid, **Zihui Xue**, Wei-Ning Hsu, David Harwath, Kristen Grauman

Learning Object State Changes in Videos: An Open-World Perspective

CVPR, 2024 **Zihui Xue**, Kumar Ashutosh, Kristen Grauman

Detours for Navigating Instructional Videos

CVPR, 2024 (Highlight) Kumar Ashutosh, **Zihui Xue**, Tushar Nagarajan, Kristen Grauman

Ego-exo4d: Understanding skilled human activity from first-and third-person perspectives

CVPR, 2024 (Oral) Kristen Grauman, Andrew Westbury, Lorenzo Torresani, Kris Kitani, Jitendra Malik, ..., Zihui Xue, et al.

Learning Fine-grained View-Invariant Representations from Unpaired Ego-Exo Videos via Temporal Alignment NeurIPS. 2023

Zihui Xue, Kristen Grauman

Egocentric Video Task Translation

CVPR, 2023 (Highlight) Zihui Xue, Yale Song, Kristen Grauman, Lorenzo Torresani

The Modality Focusing Hypothesis: Towards Understanding Crossmodal Knowledge Distillation

ICLR, 2023 (Oral) **Zihui Xue***, Zhengqi Gao*, Sucheng Ren*, Hang Zhao

Dynamic Multimodal Fusion

CVPR MULA Workshop, 2023 **Zihui Xue**, Radu Marculescu

SUGAR: Efficient Subgraph-level Training via Resource-aware Graph Partitioning *IEEE Transactions on Computers, 2023*

Zihui Xue, Yuedong Yang, Radu Marculescu

Anytime Depth Estimation with Limited Sensing and Computation Capabilities on Mobile Devices CoRL, 2022

Yuedong Yang, Zihui Xue, Radu Marculescu

Co-advise: Cross Inductive Bias Distillation

CVPR, 2022 Sucheng Ren, Zhengqi Gao, Tianyu Hua, **Zihui Xue**, Yonglong Tian, Shengfeng He, Hang Zhao

What makes multi-modal learning better than single (provably) *NeurIPS*, 2021

Yu Huang*, Chenzhuang Du*, Zihui Xue, Xuanyao Chen, Hang Zhao, Longbo Huang

	On Feature Decorrelation in Self-Supervised learning <i>ICCV, 2021 (Oral)</i> Tianyu Hua*, Wenxiao Wang*, Zihui Xue , Sucheng Ren, Yue Wang, Hang Zhao	
	Multimodal Knowledge Expansion <i>ICCV, 2021</i> Zihui Xue , Sucheng Ren, Zhengqi Gao, Hang Zhao	
	Sampling graphlets of multiplex networks: a restricted random walk app ACM Transactions on the Web, 2021 Simiao Jiao, Zihui Xue, Xiaowei Chen, Yuedong Xu	roach
Talks	Learning Fine-grained Activities from Videos Invited talk at Stanford Medical AI and Computer Vision Lab	July 2024
	Learning Object State Changes in Videos: An Open-World Perspective	May 2024
	Invited talk at EAISeminar, FAIR, Meta	N. 0000
	Egocentric Video Task Translation Invited talk at Egocentric Multimodal Activity Recognition Workshop, FAIR, Meta	Nov. 2022
Professional	Journal Reviewer:	
Service	IEEE Transactions on Pattern Analysis and Machine Intelligence	
	IEEE Transactions on Multimedia	
	International Journal of Computer Vision	
	Conference Reviewer: CVPR, ECCV, ICCV, ICML, NeurIPS, ICLR, CoRL	
Honors & Awards	1st Place in Talking-To-Me & 3rd Place in PNR Keyframe Localization, Ego4D ECCV 23 Chal lenge 202	
	Second Prize of the Scholarship for Outstanding Student, Fudan University	2020
	Nation Second Prize in China Undergraduate Mathematical Contest in Modeling Ranked 8/2115 (first round) and 13/2116 (second round) in Alibaba Global Sched rithm	2018 uling Algo- 2018
	Tung OOCL Scholarship (the First Prize), Fudan university	2018
	Third Prize of the Scholarship for Outstanding Students, Fudan University	2017
Media Coverage	Meta AI Blog, Introducing Ego-Exo4D: A foundational dataset for research on v ing and multimodal perception MarkTechPost, Meet Ego-Exo4D: A Foundational Dataset and Benchmark Suite Research on Video Learning and Multimodal Perception Meta AI Research, Advancing foundational research: overcoming challenges of ing and multimodal perception Analytics India Magazine, Top 8 papers by Meta AI Meta AI Blog, Egocentric Video Task Translation	2024 to Support 2024
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