Shivansh Patel

Education

Education			
University of Illinois at Urbana Champaign Ph.D. IN COMPUTER SCIENCE, ADVISOR: SVETLANA LAZEBNIK (3.88/4.0) Indian Institute of Technology Kanpur Bachelor of Technology In Electrical Engineering (9.0/10.0)	Aug. 2021 - Present Aug. 2016 - July. 2020		
		Research InterestsROBOTICS, REINFORCEMENT LEARNING, AND COMPUTER VISION	
		Publications	
1. Token Efficient Deep Conversational Reasoning With ConvoDAGs SUMUK SHASHIDHAR, ABHINAV CHINTA, VAIBHAV SAHAI, FARAZ MAHMOOD SIDDIQI, SHIVANSH PATEL Under Review, 2024			
2. Language-Aligned Waypoint (LAW) Supervision for Vision-and-Language Navigation in Continuous Environments Sonia Raychaudhuri, Saim Wani, Shivansh Patel, Unnat Jain, Angel X. Chang Empirical Methods in Natural Language Processing (EMNLP), 2021	PDF Project Code		
3. Interpretation of Emergent Communication in Heterogeneous Collaborative Embodied Agents SHIVANSH PATEL*, SAIM WANI*, UNNAT JAIN*, ALEXANDER SCHWING, SVETLANA LAZEBNIK, MANOLIS SAVVA, ANGEL X. CHANG	PDF Project Code		
International Conference on Computer Vision (ICCV), 2021			
4. MultiON: Benchmarking Semantic Map Memory using Multi-Object Navigation SAIM WANI*, SHIVANSH PATEL*, UNNAT JAIN*, ANGEL X. CHANG, MANOLIS SAVVA Neural Information Processing Systems (NeurIPS), 2020	PDF Project Code		
5. Robust Explanations for Visual Question Answering BADRI N. PATRO, SHIVANSH PATEL, VINAY P. NAMBOODIRI Winter Conference on Applications of Computer Vision (WACV), 2020	PDF Code		
6. U-CAM: Visual Explanation using Uncertainty based Class Activation Maps BADRI N. PATRO, MAYANK LUNAYACH, SHIVANSH PATEL, VINAY P. NAMBOODIRI International Conference on Computer Vision (ICCV), 2019	PDF Project Code		
7. Granular Multimodal Attention Networks for Visual Dialog BADRI N. PATRO, SHIVANSH PATEL, VINAY P. NAMBOODIRI ICCV workshop on Intelligent Short Video (ISV), 2019	PDF		
Internships			
Simon Fraser University (SFU) VISITING SCHOLAR, SUPERVISOR: MANOLIS SAVVA AND ANGEL X. CHANG • See publication #2, #3, and #4	Burnaby, Canada Jan 2020 - July 2020		
Projects			
Using Foundation Models to Extract Priors for Robotic Policy Learning SHIVANSH PATEL, WENLONG HUANG, SVETLANA LAZEBNIK, YUNZHU LI Used SOTA vision and language models to extract affordances Used extracted affordances to learn policies efficiently	Ongoing		
Honors & Awards			

Recipient of Academic Excellence Award for exceptional academic performance

2016-20 Recipient of IIT Kanpur MCM scholarship for Meritorious Performance

Academic Services

Challenge Leads

• Multi-Object Navigation (MultiON) Challenge, Embodied AI Workshop, CVPR 2021

Workshop Program Committee

- eXplainable AI approaches for debugging and diagnosis, NeurIPS 2021
- Embodied Al Workshop, CVPR 2021

Reviewer

• ICCV 2023, CVPR 2022, ECCV 2022, ICCV 2023, TPAMI

References_

Svetlana Lazebnik Professor, UIUC

Ph.D. Advisor

Yunzhu Li Assistant Professor, UIUC

MENTOR

Manolis Savva

Assistant Professor, SFU

INTERN MENTOR

Angel X. Chang

Assistant Professor, SFU

INTERN MENTOR

Unnat Jain Meta Researcher and CMU Postdoc

MENTOR

Vinay Namboodiri Faculty member, University of Bath

UG ADVISOR

COORDINATOR

Teaching

Graduate Teaching Assistant

UIUC

DEEP LEARNING FOR COMPUTER VISION CS444, COMPUTER VISION CS543

Social Services __

Relations Wing, Outreach Cell

IIT Kanpur

June 2018 - May 2019

- Organized renowned programs such as Tips from the Tops and Alumni Hangouts
- Initiated Buddy Program that aims to connects sophomore students with alumni
- Assisted the Institute to develop better relations with alumni
- Directed an online campaign of #ThatsIITK to guide prospective students