Abhinav Shukla

Researcher	email: abhinav.shukla.research@gmail.com
Scaled Foundations	website: abhinav95.github.io

Interests	Mul	timodal representation learning, Self-supervised learning, Comp	uter vision, Au	idio	
Experience		ed Foundations, Kirkland, WA, USA archer, Multimodal Machine Learning	2023 -	present	
		king on large-scale multimodal representation learning for robotics applications			
		a Reality Labs Research, Redmond, WA, USA arch Engineer, Audio Visual Machine Learning	202	22 - 2023	
	Wor largo glas	ked in the Audio team at Meta Reality Labs Research. Develo e scale training, benchmarking, and optimizing multimodal/audi ses. Conducted research on egocentric audiovisual machine lear . Published at CVPR 2023.	ovisual models	s for AR	
Education	PhD Adv	erial College London, UK in Computer Science iser: Prof. Maja Pantic sis: Learning Self-Supervised Representations of Audiovisual Human-C		.8 - 2022	
	Into	rnational Institute of Information Technology, Hyderabad, Ind	ia 201	.7 - 2018	
	MS	in Computer Science by Research iser: Prof. Ramanathan Subramanian	Ia 201	7 - 2010	
	The	iser: Proj. Rumanathan Subramanian sis: Multimodal Emotion Recognition from Advertisements with Appli ertising	cation to Compt	utational	
		rnational Institute of Information Technology, Hyderabad, Ind <i>ch</i> (<i>Hons.</i>) <i>in Computer Science and Engineering</i>		.3 - 2017 78/10.00	
Internships	With	book Reality Labs (FRL) Research, Redmond Anurag Kumar and Vamsi Krishna Ithapu ked on self-supervised audiovisual representation learning at FR	Fall 2020, Spri	C	
		ional University of Singapore, Singapore 1 Prof. Mohan Kankanhalli	Fall 2017, Spri	ng 2018	
	Stuc	lied multimodal (audio, video, eye-tracking, physiology) affect re It videos. Published in IEEE Transactions on Affective Computing	0		
	Goo	gle Summer of Code (remote)	Summer 20	16, 2017	
		7: Red Hen Lab, with Prof. Francis Steen and Prof. Mark Turner 5: CCExtractor, with Carlos Fernandez Sanz			
Awards,	CVI	PR Outstanding Reviewer Award		2023	
Fellowships, &	Sam	sung PhD Fellowship	20	19-2020	
Recognition		Hyderabad Fast-track Masters thesis (for high quality papers in reput	ed venues)	2018	
		Hyderabad Research award (for publishing as an undergraduate) M SIGCHI Gary Marsden Student Development Fund (to attend)	CMI 2019)	2018 2018	
		pgle India Travel Grant (to attend ACM MM 2017)	CIVII 2018)	2018	
		M ICMI 2017 Travel Grant (to attend ICMI 2017)		2017	
	Dea	n's Merit List Award for excellence in academics (6 consecutive sen	nesters) 20	014-2017	
Preprints [[11]	GRID: A Platform for General Robot Intelligence Development	nt		
		S. Vemprala, S. Chen, A. Shukla, D. Narayanan, A. Kapoor <i>arXiv</i> , 2023			
Publications [[10]	Egocentric Auditory Attention Localization in Conversations F. Ryan, H. Jiang, A. Shukla, J. Rehg, V. Ithapu			

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023

[9] Does Visual Self-Supervision Improve Learning of Speech Representations? A. Shukla, S. Petridis, M. Pantic IEEE Transactions on Affective Computing (TAFFC), 2021

	[8]	Recognition of Advertisement Emotions with Application to Computational Advertising A. Shukla, S. S. Gullapuram, H. Katti, M. Kankanhalli, R. Subramanian <i>IEEE Transactions on Affective Computing (TAFFC)</i> , 2020	
	[7]	Visually Guided Self Supervised Learning of Speech Representations A. Shukla, K. Vougioukas, P. Ma, S. Petridis, M. Pantic International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2020	0, Oral
	[6]	Looking Beyond a Clever Narrative: Visual Context and Attention are Primary Drivers of Affect in Video Advertisements A. Shukla, H. Katti, M. Kankanhalli, R. Subramanian ACM International Conference on Multimodal Interaction (ICMI), 2018, Oral	
	[5]	Evaluating Content-Centric vs. User-Centric Ad Affect Recognition A. Shukla, S. S. Gullapuram, H. Katti, K. Yadati, M. Kankanhalli, R. Subramania ACM International Conference on Multimodal Interaction (ICMI), 2017	an
	[4]	Affect Recognition in Ads with Application to Computational Advertising A. Shukla, S. S. Gullapuram, H. Katti, K. Yadati, M. Kankanhalli, R. Subramania ACM International Conference on Multimedia (ACM MM), 2017, Oral	an
Workshop Papers	[3]	Learning Speech Representations from Raw Audio by Joint Audiovisual Self-Supervision A. Shukla, S. Petridis, M. Pantic ICML Workshop - Self-Supervision in Audio and Speech, 2020	
	[2]	Visual Self-Supervision by Facial Reconstruction for Speech Representation I A. Shukla, S. Petridis, M. Pantic <i>CVPR Workshop - Sight and Sound</i> , 2020	earning
	[1]	Learning Self-Supervised Multimodal Representations of Human Behaviour A. Shukla Doctoral Symposium at ACM International Conference on Multimedia (ACM MM), 2	
Invited Talks & Panels		-Supervised Audiovisual Representation Learning ble Video Engineering	2023
	Face Mits Univ	rning Self-Supervised Multimodal Representations of Human Behavioural Da ebook Reality Labs Research (FRL-R) subishi Electric Research Laboratories (MERL) versity of Nottingham	ata 2021 2021 2019
		omatic Understanding of News Videos & CCExtractor versität Osnabrück	2017
Professional Activities	IEE IEE IEE IEE Affe IEE	E/CVF International Conference on Computer Vision (ICCV) E/CVF Winter Conference on Applications of Computer Vision (WACV)	22-2024 2023 2024 19-2023 2022 2021) 2021 2021

IEEE International Conference on Automatic Face and Gesture Recognition (FG)

2019