## Kranti Kumar Parida

CONTACT INFORMATION	School of Computer Science University of Bristol United Kingdom	Phone : +44-7741901 E-mail : kranti.parida Website : https://kran	a@bristol.ac.uk
RESEARCH INTERESTS	Computer Vision, Machine Learning, Multimodal Processing		
WORK EXPERIENCE	Postdoctoral Researcher, Univ	versity of Bristol, UK	08/2023 - present
	Research Scientist, TensorTour	· India Pvt. Ltd.	05/2022 - 06/2023
EDUCATION	Indian Institute of Technolog PhD in Computer Science Advisors: Dr. Gaurav Sharma, Pr		2016 - 2023
	Indian Institute of Technology Kharagpur, India2014-2016Master of Technology in Medical Imaging and Informatics2014-2016Advisors: Dr. Rajiv R. Sahay, Prof. P. K. Dutta2014-2016		
	Silicon Institute of Technolog Bachelor of Technology in Electro		
PUBLICATIONS	Patents		
	[1] Gaurav Sharma, Siddharth Srivastava, Kranti Kumar Parida. "Methods and systems of noise aware audio visual speech denoising." US Patent App. 18/586, 187, 2024 link		
	Journals		
	[1] Kranti K. Parida, Siddharth Srivastava, Gaurav Sharma. "Noise Aware Audio-Visual Speech Denoising." <i>IEEE Transactions on Multimedia (Under</i> <i>Minor Revision)</i> , 2025. pdf		

[2] Kranti K. Parida, Gaurav Sharma. "Discriminative Semantic Transitive Consistency for Cross-Modal Learning." *Computer Vision and Image Understanding (CVIU), 2022.* pdf

## Conferences

[1] T Perrett, A Darkhalil, S Sinha, O Emara, S Pollard, **Kranti Kumar Parida**, K Liu, P Gatti, S Bansal, K Flanagan, J Chalk, Z Zhu, R Guerrier, F Abdelazim, B Zhu, D Moltisanti, M Wray, H Doughty, D Damen. "HD-EPIC: A Highly-Detailed Egocentric Video Dataset." *IEEE/CVF Conf. on Computer Vision and Pattern Recognition (CVPR), 2025.* pdf

[2] Kranti Kumar Parida, Siddharth Srivastava, Gaurav Sharma. "Beyond Mono to Binaural: Generating Binaural Audio from Mono Audio with Depth and Cross Modal Attention." *IEEE Winter Conference on Applications of Computer Vision (WACV), 2022.* pdf

[3] Kranti Kumar Parida, Siddharth Srivastava, Gaurav Sharma. "Beyond Image to Depth: Improving Depth Prediction using Echoes." *IEEE/CVF Conf. on Computer Vision and Pattern Recognition (CVPR), 2021.* pdf

[4] Pratik Mazumder, Pravendra Singh, **Kranti Kumar Parida**, Vinay P Namboodiri. "AVGZSLNet: Audio-Visual Generalized Zero-Shot Learning by Reconstructing Label Features from Multi-Modal Embeddings." *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2021. pdf

[5] Kranti Kumar Parida, Neeraj Matiyali, Tanaya Guha, and Gaurav Sharma. "Coordinated Joint Multimodal Embeddings for Generalized Audio-Visual Zeroshot Classification and Retrieval of Videos." *IEEE Winter Conference on Applications of Computer Vision (WACV), 2020.* pdf

[6] Latha H. Narayan, **Kranti K. Parida**, and Rajiv R. Sahay. "Simultaneous blur map estimation and deblurring of a single space-variantly defocused image." *Twenty-third National Conference on Communications* (NCC), 2017.

## Workshops

[1] Kranti K. Parida, Neeraj Matiyali, Siddharth Srivastava, Gaurav Sharma. "Depth Infused Binaural Audio Generation using Hierarchical Cross-Modal Attention" *Sight and Sound Workshop*, *CVPR 2021*. pdf

RESEARCH EXPERIENCE	e e e e e e e e e e e e e e e e e e e		
	TensorTour India Pvt. Ltd.	05/22 - $06/23$	
	Research Scientist		
	• Research and implementation of audio-visual speech models for tasks		
	like speech denoising and speech superresolution.		
	Indian Institute of Technology Kanpur	07/16-12/22	
	Graduate Research Student		
	• Research on multimodal AI, to help machines use different modalities		
	for understanding the task better as done by the humans		
	Indian Institute of Technology Kharagpur	07/15-06/16	
	Master Research Student		

• Research on optimization framework for depth and focused image estimation from a stack of microscopic images

	<ul> <li>All India Institute of Medical Sciences, New Delhi 05/14- Research Intern</li> <li>Worked with real clinical data to segment different layers of OC ages of a region in the foot and generate a 3D model of it.</li> </ul>	,		
TEACHING EXPERIENCE	Tutor, Introduction to Programming, IIT Kanpur 08/19-	11/19		
	<b>TA</b> , <i>Introduction to Machine Learning</i> , IIT Kanpur 08/18-1	,		
	TA, Introduction to Natural Language Proc., IIT Kanpur 01/18-04/18			
	<b>TA</b> , Online Learning and Optimization, IIT Kanpur 01/17-04/17			
	<b>TA</b> , <i>Intro. to Programming</i> , IIT Kanpur 08/17-11/17,01/19-	,		
WORKSHOPS & CONFERENCES	European Conference on Computer Vision Milano, Italy	2024		
	Winter Conference on Applications of Computer Vision Waikoloa, Hawaii (Virtual)	2022		
	<b>Computer Vision and Pattern Recognition</b> Virtual	2021		
	<b>Graduate Symposium</b> by Google Research India Symposium for selected Ph.D. Students in the Asia-Pacific region	2021		
	Indian Conf. on Computer Vision, Graphics & Image Proc. IIT Jodhpur, India (Virtual)	2020		
	Winter Conference on Applications of Computer Vision Snowmass Village, Colorado, USA	2020		
	Vision and Sports Summer School Czech Technical University, Prague, Czech Republic	2017		
	Summer School on Machine Learning: Deep Learning CVIT, IIIT Hyderabad, India	2017		
	Indian Conf. on Computer Vision, Graphics & Image Proc. IIT Guwhati, India			
	Indian Workshop in Machine Learning(IwML) IIT Kanpur, India	2016		
AWARDS & FELLOWSHIPS	Recognized as <b>Outstanding Reviewer</b> at ICML 2022			
	Selected for <b>Doctoral Consortium</b> at CVPR 2021 Presented my phd research work			
	<b>Qualcomm Innovation Fellowship 2021 India</b> Finalist 36 teams selected out of 95			
	Won <b>Indian Driving Dataset (IDD)</b> challenge ICVGIP 2020, India			
	<b>Travel Grant from Research I Foundation</b> , CSE, IIT Kanpur Participating and presenting paper at WACV 2020, Colorado, USA			
	<b>Director's Appreciation Letter</b> for exceptional rating as a Tutor in the course of Fundamentals of Computing (2019-20, SemI)			

	Visvesvaraya PhD Fellowship, 2016-21 Ministry of Electronics & IT, Government of India		
	<b>Post Graduate Fellowship for M.Tech</b> , 2014-16 AICTE, Govt. of India		
PROFESSIONAL ACTIVITIES	<b>Organizer</b> , ICVGIP Contest 2021		
	<b>Reviewer</b> , ICASSP '24; Eurographics '24; TAPMI '23; CVPR '24, '23, '22; ICCV '23, ECCV '24, ICML '22; WACV '25, '24, '23, '22; AAAI '22; ICPR '22		
	<b>Public Repository</b> , Maintaining awesome audio-visual list @ github link Collection of audio-visual papers accepted at major conferences and journals		
	<b>Student Volunteer</b> , International Conference on Systems in Medicine and Biology 2016, IIT Kharagpur, India		
	<b>Volunteer</b> , Machine Vision and Learning Spring School 2016, I Electrical Engg., IIT Kharagpur	Dept. Of	
	Member, Student Activity Committee, IEEE Engineering in and Biology Student Club, IIT Kharagpur, 2015-16	Medicine	
TALKS & SEMINARS	Making Computers Intelligent: The Way Forward Invited Talk, Institute Lecture Series Kendrapara Auto. College, Odisha, India	July 2024	
	ML for audio-visual processingNFaculty Development Programme on Recent trends in Machineing for Engineering ApplicationsOrganized by Vellore Institute of Technology, Vellore, India	Nov. 2023 e <b>Learn-</b>	
	Audio-Visual Binauralization	Jan. 2022	
	Beyond Image to Depth I Invited Talk ICVGIP 2021, Virtual	Dec. 2021	
	Audio-Visual Depth EstimationJPresented Poster and Short TalkCVPR 2021, Virtual	June 2021	
	Basics of PyTorch and CNN Faculty Development Programme on Optimization and Deep I Organized by NIT Patna & Techno Main Salt Lake, Kolkata, Indi	-	
	Audio-Visual Zero-shot LearningIPresented Poster and Short TalkWACV 2020, Colorado, USA	Feb. 2020	
TECHNICAL SKILLS	Python, PyTorch, C/C++, MatLab, $LATEX$		
REFERENCES	Available upon Request		