

Kranti Kumar Parida

CONTACT INFORMATION	Samsung R&D Institute Bangalore India	<i>Phone</i> : +91-9933911071 <i>E-mail</i> : kranti.parida@gmail.com <i>Website</i> : https://krantiparida.github.io/
RESEARCH INTERESTS	Computer Vision, Machine Learning, Audio-visual understanding	
WORK EXPERIENCE	Chief Engineer , Samsung R&D Institute, Bangalore Postdoctoral Researcher , University of Bristol, UK Research Scientist , TensorTour India Pvt. Ltd.	09/2025 - present 09/2023 - 08/2025 05/2022 - 06/2023
EDUCATION	Indian Institute of Technology Kanpur, India PhD in Computer Science <i>Advisors</i> : Dr. Gaurav Sharma, Prof. Manindra Agrawal	2016 - 2023
	Indian Institute of Technology Kharagpur, India Master of Technology in Medical Imaging and Informatics <i>Advisors</i> : Dr. Rajiv R. Sahay, Prof. P. K. Dutta	2014-2016
	Silicon Institute of Technology, Bhubaneswar, India Bachelor of Technology in Electronics and Telecommunications	2009-2013
PUBLICATIONS	Patents [1] Gaurav Sharma, Siddharth Srivastava, Kranti Kumar Parida . “Methods and systems of noise aware audio visual speech denoising.” <i>US Patent App. 18/586, 187, 2024</i> link	
	Journals [1] Kranti K. Parida , Siddharth Srivastava, Gaurav Sharma. “Noise Aware Audio-Visual Speech Denoising.” <i>IEEE Transactions on Multimedia (In Press)</i> , 2025. pdf	
	[2] Kranti K. Parida , Gaurav Sharma. “Discriminative Semantic Transitive Consistency for Cross-Modal Learning.” <i>Computer Vision and Image Understanding (CVIU)</i> , 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.” <i>IEEE/CVF Conf. on Computer Vision and Pattern Recognition (CVPR)</i> , 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

University of Bristol 08/23 - present
Research Associate

- Research on multimodal egocentric video understanding with a focus on audio and 3D understanding

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

All India Institute of Medical Sciences, New Delhi 05/14-06/14
Research Intern

- Worked with real clinical data to segment different layers of OCT images of a region in the foot and generate a 3D model of it.

TEACHING EXPERIENCE

Tutor, *Introduction to Programming*, IIT Kanpur 08/19-11/19
TA, *Introduction to Machine Learning*, IIT Kanpur 08/18-11/18
TA, *Introduction to Natural Language Proc.*, IIT Kanpur 01/18-04/18
TA, *Online Learning and Optimization*, IIT Kanpur 01/17-04/17
TA, *Intro. to Programming*, IIT Kanpur 08/17-11/17,01/19-04/19

WORKSHOPS & CONFERENCES

European Conference on Computer Vision 2024
Milano, Italy
Winter Conference on Applications of Computer Vision 2022
Waikoloa, Hawaii (Virtual)
Computer Vision and Pattern Recognition 2021
Virtual
Graduate Symposium by Google Research India 2021
Symposium for selected Ph.D. Students in the Asia-Pacific region
Indian Conf. on Computer Vision, Graphics & Image Proc. 2020
IIT Jodhpur, India (Virtual)
Winter Conference on Applications of Computer Vision 2020
Snowmass Village, Colorado, USA
Vision and Sports Summer School 2017
Czech Technical University, Prague, Czech Republic
Summer School on Machine Learning: Deep Learning 2017
CVIT, IIIT Hyderabad, India
Indian Conf. on Computer Vision, Graphics & Image Proc. 2016
IIT Guwahati, India
Indian Workshop in Machine Learning(IwML) 2016
IIT Kanpur, India

AWARDS & FELLOWSHIPS

Recognized as **Outstanding Reviewer** at ICML 2022
Selected for **Doctoral Consortium** at CVPR 2021
Presented my phd research work
Qualcomm Innovation Fellowship 2021 India Finalist
36 teams selected out of 95
Won **Indian Driving Dataset (IDD)** challenge
ICVGIP 2020, India
Travel Grant from Research I Foundation, CSE, IIT Kanpur
Participating and presenting paper at WACV 2020, Colorado, USA
Director's Appreciation Letter for exceptional rating
as a Tutor in the course of Fundamentals of Computing (2019-20, Sem.-I)

Visvesvaraya PhD Fellowship, 2016-21
Ministry of Electronics & IT, Government of India

Post Graduate Fellowship for M.Tech, 2014-16
AICTE, Govt. of India

PROFESSIONAL ACTIVITIES	<p>Organizer, ICVGIP Contest 2021</p> <p>Reviewer, ICASSP '26, '24; Eurographics '24; TAPMI '23; CVPR '24, '23, '22; ICCV '23, ECCV '24, ICML '22; WACV '25, '24, '23, '22; AAAI '26, '22; ICPR '22</p> <p>Public Repository, Maintaining awesome audio-visual list @ github link Collection of audio-visual papers accepted at major conferences and journals</p> <p>Student Volunteer, International Conference on Systems in Medicine and Biology 2016, IIT Kharagpur, India</p> <p>Volunteer, Machine Vision and Learning Spring School 2016, Dept. Of Electrical Engg., IIT Kharagpur</p> <p>Member, Student Activity Committee, IEEE Engineering in Medicine and Biology Student Club, IIT Kharagpur, 2015-16</p>
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TALKS & SEMINARS	<p>Making Computers Intelligent: The Way Forward July 2024 Invited Talk, Institute Lecture Series Kendrapara Auto. College, Odisha, India</p> <p>ML for audio-visual processing Nov. 2023 Faculty Development Programme on Recent trends in Machine Learning for Engineering Applications Organized by Vellore Institute of Technology, Vellore, India</p> <p>Audio-Visual Binauralization Jan. 2022 Presented Poster and Short Talk WACV 2022, Virtual</p> <p>Beyond Image to Depth Dec. 2021 Invited Talk ICVGIP 2021, Virtual</p> <p>Audio-Visual Depth Estimation June 2021 Presented Poster and Short Talk CVPR 2021, Virtual</p> <p>Basics of PyTorch and CNN Jan. 2021 Faculty Development Programme on Optimization and Deep Learning Organized by NIT Patna & Techno Main Salt Lake, Kolkata, India</p> <p>Audio-Visual Zero-shot Learning Feb. 2020 Presented Poster and Short Talk WACV 2020, Colorado, USA</p>
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TECHNICAL SKILLS Python, PyTorch, C/C++, MatLab, L^AT_EX

REFERENCES Available upon Request