

## Kranti Kumar Parida

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### CONTACT INFORMATION

School of Computer Science  
University of Bristol  
United Kingdom

Phone : +44-7741901563  
E-mail : [kranti.parida@bristol.ac.uk](mailto:kranti.parida@bristol.ac.uk)  
Website : <https://krantiparida.github.io/>

### RESEARCH INTERESTS

Computer Vision, Machine Learning, Multimodal Processing

### WORK EXPERIENCE

**Postdoctoral Researcher**, University of Bristol, UK    08/2023 - present  
**Research Scientist**, TensorTour India Pvt. Ltd.    05/2022 - 06/2023

### EDUCATION

**Indian Institute of Technology Kanpur, India**    2016 - 2023  
PhD in Computer Science  
*Advisors:* Dr. Gaurav Sharma, Prof. Manindra Agrawal

**Indian Institute of Technology Kharagpur, India**    2014-2016  
Master of Technology in Medical Imaging and Informatics  
*Advisors:* Dr. Rajiv R. Sahay, Prof. P. K. Dutta

**Silicon Institute of Technology, Bhubaneswar, India**  
Bachelor of Technology in Electronics and Telecommunications    2009-2013

### PUBLICATIONS    Journals

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

#### Conferences

- [5] **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](#)
- [4] **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](#)
- [3] 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](#)

[2] **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](#)

[1] 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

**Indian Institute of Technology Kanpur** 07/16-present  
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

**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)

<b>Winter Conference on Applications of Computer Vision</b> Snowmass Village, Colorado, USA	2020
<b>Vision and Sports Summer School</b> Czech Technical University, Prague, Czech Republic	2017
<b>Summer School on Machine Learning: Deep Learning</b> CVIT, IIIT Hyderabad, India	2017
<b>Summer School on Recent Advances in Computer Vision</b> CVIT, IIIT Hyderabad, India	2017
<b>Indian Conf. on Computer Vision, Graphics &amp; Image Proc.</b> IIT Guwhati, India	2016
<b>Indian Workshop in Machine Learning(IwML)</b> IIT Kanpur, India	2016

## 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

**Organizer**, ICVGIP Contest 2021  
**Reviewer**, TAPMI '23; CVPR '23, '22; ICML '22; WACV '24, '23, '22; AAAI '22; ICPR '22  
**Public Repository**, Maintaining awesome audio-visual list @ github [link](#)  
 Collection of audio-visual papers accepted at major conferences and journals  
**Student Volunteer**, International Confernece on Systems in Medicine and Biology 2016, IIT Kharagpur, India  
**Volunteer**, Machine Vision and Learning Spring School 2016, Dept. Of Electrical Engg., IIT Kharagpur  
**Member, Student Activity Committee**, IEEE Engineering in Medicine and Biology Student Club, IIT Kharagpur, 2015-16

<b>TALKS &amp; SEMINARS</b>	<b>Audio-Visual Binauralization</b>	Jan. 2022
	Presented Poster and Short Talk WACV 2022, Virtual	
	<b>Beyond Image to Depth</b>	Dec. 2021
	Invited Talk ICVGIP 2021, Virtual	
	<b>Audio-Visual Depth Estimation</b>	June 2021
	Presented Poster and Short Talk CVPR 2021, Virtual	
	<b>Basics of PyTorch and CNN</b>	Jan. 2021
	Faculty Development Programme on <b>Optimization and Deep Learning</b> Organized by NIT Patna & Techno Main Salt Lake, Kolkata, India	
	<b>Audio-Visual Zero-shot Learning</b>	Feb. 2020
	Presented Poster and Short Talk WACV 2020, Colorado, USA	
<b>TECHNICAL SKILLS</b>	Python, PyTorch, C/C++, MatLab, $\text{\LaTeX}$	
<b>REFERENCES</b>	Available upon Request	