

## Kranti Kumar Parida

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### CONTACT INFORMATION

Dept. of CSE  
IIT Kanpur  
India

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Website : <https://krantiparida.github.io/>

### RESEARCH INTERESTS

Computer Vision, Machine Learning, Multimodal Processing

### EDUCATION

**Indian Institute of Technology Kanpur, India** 2016 - present  
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 Conferences

[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](#)

<b>RESEARCH EXPERIENCE</b>	<b>Indian Institute of Technology Kanpur</b> 07/16-present Graduate Research Student <ul style="list-style-type: none"> <li>• Research on multimodal AI, to help machines use different modalities for understanding the task better as done by the humans</li> </ul>
	<b>Indian Institute of Technology Kharagpur</b> 07/15-06/16 Master Research Student <ul style="list-style-type: none"> <li>• Research on optimization framework for depth and focused image estimation from a stack of microscopic images</li> </ul>
	<b>All India Institute of Medical Sciences, New Delhi</b> 05/14-06/14 Research Intern <ul style="list-style-type: none"> <li>• 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.</li> </ul>
<b>TEACHING EXPERIENCE</b>	<b>Tutor, <i>Introduction to Programming</i></b> , IIT Kanpur 08/19-11/19
	<b>TA, <i>Introduction to Machine Learning</i></b> , IIT Kanpur 08/18-11/18
	<b>TA, <i>Introduction to Natural Language Proc.</i></b> , IIT Kanpur 01/18-04/18
	<b>TA, <i>Online Learning and Optimization</i></b> , IIT Kanpur 01/17-04/17
	<b>TA, <i>Intro. to Programming</i></b> , IIT Kanpur 08/17-11/17, 01/19-04/19
<b>WORKSHOPS &amp; CONFERENCES</b>	<b>Computer Vision and Pattern Recognition</b> 2021 Virtual
	<b>Graduate Symposium</b> by Google Research India 2021 Symposium for selected Ph.D. Students in the Asia-Pacific region
	<b>Indian Conf. on Computer Vision, Graphics &amp; Image Proc.</b> 2020 IIT Jodhpur, India (Virtual)
	<b>Winter Conference on Applications of Computer Vision</b> 2020 Snowmass Village, Colorado, USA
	<b>Vision and Sports Summer School</b> 2017 Czech Technical University, Prague, Czech Republic
	<b>Summer School on Machine Learning: Deep Learning</b> 2017 CVIT, IIIT Hyderabad, India
	<b>Summer School on Recent Advances in Computer Vision</b> 2017 CVIT, IIIT Hyderabad, India
	<b>Indian Conf. on Computer Vision, Graphics &amp; Image Proc.</b> 2016 IIT Guwahati, India
	<b>Indian Workshop in Machine Learning(IwML)</b> 2016 IIT Kanpur, India

## AWARDS & FELLOWSHIPS

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

Awarded cash prize for being in **Top 20 out of ~150 participants**, 2017

Summer school on Machine Learning, CVIT, IIIT Hyderabad

Awarded cash prize for being in **Top 20 out of ~150 participants**, 2017

Summer school on Computer Vision, CVIT, IIIT Hyderabad

## PROFESSIONAL ACTIVITIES

**Student Volunteer**, International Conference 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

## TALKS & SEMINARS

**Audio-Visual Depth Estimation**

June 2021

Presented Poster and Short Talk

CVPR 2021, Virtual

**Basics of PyTorch and CNN**

Jan. 2021

Faculty Development Programme on **Optimization and Deep Learning**

Organized by NIT Patna & Techno Main Salt Lake, Kolkata

**Audio-Visual Zero-shot Learning**

Feb. 2020

Presented Poster and Short Talk

WACV 2020, Colorado, USA

## TECHNICAL SKILLS

Python, PyTorch, C/C++, MatLab, L<sup>A</sup>T<sub>E</sub>X

## REFERENCES

Available upon Request