

# Siddharth Katageri

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## INTERESTS

3D Computer Vision, Human-Scene Interaction, Representation Learning

## EDUCATION

**Indian Institute of Information Technology, Hyderabad (IIIT-H)** Aug 2021 - Present  
Masters by Research, Computer Science and Engineering, GPA: 8.57/10

**KLE Technological University, Hubballi** Jul 2017 - Jun 2021  
B.Eng. in Computer Science and Engineering, GPA: 8.66/10

## EXPERIENCE

**Indian Institute of Information Technology, Hyderabad (IIIT-H)** Aug 2021 - Present  
*Research Fellow* - Machine Learning Lab (MLL)  
advised by **Prof. Charu Sharma** and **Prof. Kai Han**

- Working on 3D Computer Vision topics like representation learning in non-euclidean spaces, domain adaptation, and learning human-scene interactions.

**KLE Technological University, Hubballi** Mar 2021 - Aug 2021  
*Research Intern* - Center of Excellence in Visual Intelligence (CEVI)  
advised by **Prof. Uma Mudengudi**

- Worked on the task of 3D shape decomposition into basic primitive shapes towards improving the performance of various 3D analysis tasks.

**Indian Institute of Technology, Delhi (IIT-D)** Jun 2019 - Jul 2019  
*Project Trainee*

- Worked with **Prof. Prem Kumar Kalra** and his Ph.D. students on the project “Drilling Effectualness”, which was a collaborative project with AIIMS, Delhi.

## PUBLICATIONS

**Synergizing Contrastive Learning and Optimal Transport for 3D Point Cloud Domain Adaptation** [↗](#)  
**Siddharth Katageri\***, Arkadipta De\*, Chaitanya Devaguptapu\*, VSSV Prasad, Charu Sharma, Manohar Kaul  
*Winter Conference on Applications of Computer Vision (WACV)*, 2024

**ABD-Net: Attention Based Decomposition Network for 3D Point Cloud Decomposition** [↗](#)  
**Siddharth Katageri**, Shashidhar Kudari, Akshay Gunari, Ramesh Tabib, Uma Mudengudi  
*International Conference on Computer Vision Workshops (ICCVW)*, 2021 - StruCo3D [↗](#)

**PointDCCNet: 3D Object Categorization Network using Point Cloud Decomposition** [↗](#)  
**Siddharth Katageri**, Sameer Kulmi, Ramesh Tabib, Uma Mudengudi  
*Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2021 - WiCV [↗](#)

## PAST AND ONGOING PROJECTS

**Learning Human-Object Interactions in Real 3D Scenes** (*ongoing*)

Summary: We are interested in building systems that comprehend human motion and interactions in 3D environments and are actively working on it.

**Vision-Based Techniques to Evaluate Effectualness of Micro Suturing by Trainee Neurosurgeons**

Summary: We designed and implemented a vision-based technique for automated evaluation and scoring of the micro-suturing performed by trainee neurosurgeons. This project was done in collaboration with AIIMS, Delhi.

## TEACHING AND EVENTS

- Active volunteer in organizing and managing the **3D Vision Summer School** in 2022 and 2023 organized at IIIT Hyderabad. Designed and conducted tutorial sessions on getting started with 3D Vision (slides [↗](#)).
- Active volunteer in managing the **Summer School on AI** in 2023 organized at IIIT Hyderabad.
- Active volunteer in managing **NCVPRIPG-2019**, which was organized at KLE Technological University.
- Active Volunteer in conducting workshops on Image Processing, Machine Learning, and Computer Vision conducted by CVG. (2019, 2020)

## CERTIFICATIONS AND ACHIEVEMENTS

- Attended a workshop on 3D Computer Vision at IIIT Hyderabad. (2020)
- Attended CVG Winter Workshop on Image Processing, Machine Learning and Neural Networks.
- Completed multiple courses of *Deep Learning Specialization* authorized by deeplearning.ai, offered through Coursera.
- Won multiple state and national level awards in the Abacus and Mental Math Championship. (*National rank: 65*)

## TECHNICAL SKILLS

*Languages:* Python, C, C++

*Framework:* PyTorch

*Tools:* Blender, MeshLab, Git