

# Amogh Tiwari

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## EDUCATION

**International Institute of Information Technology, Hyderabad (IIIT-H)**

Hyderabad, India

*B.Tech and M.S. (by research) in Computer Science (CGPA: 8.11/10.00).*

*Aug 2018 – Present*

## PUBLICATIONS

- *ConVol-E: Continuous Volumetric Embeddings for Human-Centric Dense Correspondence Estimation* | **Amogh Tiwari**, Pranav Manu, Nakul Rathore, Astitva Srivastava, Avinash Sharma | Fifth Workshop on Image Matching: Local Features and Beyond at IEEE Conference on Computer Vision and Pattern Recognition (CVPRw), 2023.
- *Enhanced Spatio-Temporal Context for Temporally Consistent Robust 3D Human Motion Recovery from Monocular Videos* | Sushovan Chanda, Lokender Tiwari, **Amogh Tiwari**, Avinash Sharma, Brojeshwar Bhowmick, Hrishav Barua | **Under review** at WACV, 2024.
- *Ground then Navigate: Language-guided Navigation in Dynamic Scenes* | Kanishk Jain, Varun Chhangani, **Amogh Tiwari**, K. Madhava Krishna, Vineet Gandhi | IEEE International Conference on Robotics and Automation (ICRA), 2023.

## RESEARCH EXPERIENCE

### Student Researcher

May 2020 – Present

*Center for Visual Information Technology (CVIT), IIIT-H (Advisor: Dr. Avinash Sharma)*

Hyderabad, India

- Presently working on Temporally Consistent 3D Human Pose and Shape Estimation.
- Past Projects: Human-Centric Dense Correspondence Estimation; Appearance Agnostic 6-DoF Object Pose Estimation using Heat Diffusion; Using Event Cameras for Human Motion Capture.

### Research Intern

Feb 2023 – Sep 2023

*TCS Research (Mentors: Dr. Lokender Tiwari and Dr. Brojeshwar Bhowmick)*

Kolkata, India (Remote)

- Worked on Temporally Consistent 3D Human Pose and Shape Estimation (project led to a WACV 2024 submission).

### Computer Vision Intern

May 2022 – Aug 2022

*Spatial Guide (Mentors: Mr. Akhil Raja and Mr. Yagna Narayana A.)*

Hyderabad, India

- Worked on in-the-wild 6-DoF Object Pose Estimation.

### Student Researcher

Jan 2022 – Sep 2022

*Center for Visual Information Technology (CVIT), IIIT-H (Advisor: Dr. Vineet Gandhi)*

Hyderabad, India

- Worked on Visual Grounding for Autonomous Navigation (project led to an ICRA 2023 publication).

### Student Trainee

May 2021 – Jul 2021

*Center for Artificial Intelligence and Robotics (CAIR) (Mentor: Dr. Arshad Jamal)*

Bengaluru, India (Remote)

- Developed a Visual Question Answering (VQA) model integrated with a Robotic Operating System (ROS) based environment.

## TEACHING EXPERIENCE

- **Co-held a 2-day lab session** on basics of *Digital Image Processing* using *Python* and *Numpy* as part of a Computer Vision course at *Samsung Research Institute, Bangalore*. [Notes]
- **Co-held 2 sessions** at *3D Vision Summer School (3DVSS) - 2023* at IIIT-H. [Notes]
- **Teaching Assistant** for *Computer Vision* (Spring '23) and *Computer Systems Organization* (Spring '22) courses at IIIT-H. (Responsibilities included conducting tutorials, creating & evaluating assignments, and mentoring course projects).

## OTHER ACHIEVEMENTS

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- Member of winning team of *Qualcomm Innovation Fellowship (QIF) - 2023*, for proposal titled “Towards Physics-inspired Template-free 4D Clothed Human Digitization from RGB Video(s)”.
- Secured first position in Geo-Innovation Challenge (2022) organized by *Multidisciplinary Center for Geoinformatics, Delhi Technological University*. [[\*Solution\*](#)].

## VOLUNTEERING AND EXTRA-CURRICULAR

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- Served as reviewer for *ICVGIP '22* and *ICVGIP '23*.
- Co-led a 50-member team for an year as the overall coordinator of *E-Cell, IIT Hyderabad*.
- Member of college basketball team.