

# Amogh Tiwari

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## EDUCATION

**INRIA Center of the University of Grenoble Alpes**

*Ph.D. in Computer Science (Specialization: Robotic Vision).*

Grenoble, France

Nov 2024 - Ongoing

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

*B.Tech (Hons.) + M.S. by Research in Computer Science and Engineering (CGPA: 8.11/10.00). Aug 2018 – Jul 2024*

Hyderabad, India

## 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, **Amogh Tiwari**, Lokender Tiwari, Brojeshwar Bhowmick, Avinash Sharma, Hrishav Barua  
Arxiv, 2023.
- *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

**Doctoral Researcher**

*INRIA Center of the University of Grenoble Alpes (Mentors: [Pia Bideau](#), [Karteek Alahari](#))*

Nov 2024 - Ongoing

Grenoble, France

- Working on hand-pose estimation for object grasping and manipulation.

**Student Researcher**

*Center for Visual Information Technology (CVIT), IIIT-H (Mentor: [Avinash Sharma](#))*

May 2020 – Jul 2024

Hyderabad, India

- Thesis Project: Worked on 3D Human Pose, Shape and Correspondence Estimation.
- Additional Projects: Appearance Agnostic 6-DoF Object Pose Estimation; Human Motion Capture using Event Cameras.

**Research Intern**

*TCS Research (Mentors: [Lokender Tiwari](#), [Brojeshwar Bhowmick](#))*

Feb 2023 – Sep 2023

Kolkata, India (Remote)

- Worked on Temporally Consistent 3D Human Pose and Shape Estimation.

**Computer Vision Intern**

*Spatial Guide (Mentors: [Akhil Raja](#) and [Yagna Narayana A.](#))*

May 2022 – Aug 2022

Hyderabad, India

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

**Student Researcher**

*Center for Visual Information Technology (CVIT), IIIT-H (Mentor: [Vineet Gandhi](#))*

Jan 2022 – Sep 2022

Hyderabad, India

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

**Student Trainee**

*Center for Artificial Intelligence and Robotics (CAIR) (Mentor: [Arshad Jamal](#))*

May 2021 – Jul 2021

Bengaluru, India (Remote)

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

## TEACHING EXPERIENCE

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- Teaching Assistant for *Computer Vision* (Spring '23) and *Computer Systems Organization* (Spring '22) courses at IIIT-H. (Responsibilities: Conducting tutorials, creating & evaluating assignments, mentoring course projects).
- Practical sessions at *3D Vision Summer School (3DVSS)* - 2022, 2023, 2024 organized by IIIT Hyderabad.
- Lab session: *Digital Image Processing* using *Python* at *Samsung Research Institute, Bangalore*. [[Notes](#)].
- Tutorial on *LaTeX* as part of the *Computing Tools* course at IIIT-H. [[Notes](#)].

## VOLUNTEERING AND EXTRA-CURRICULAR

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- Reviewer: ICVGIP - *2022, 2023 2024*.
- Coordinator: *E-Cell, IIIT Hyderabad*. Co-led a team of around 50 members.
- Sports: Member of IIIT-H basketball team; Frequent participant at 10K races.