

Amogh Tiwari

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EDUCATION

INRIA Center of the University of Grenoble Alpes <i>Ph.D. in Computer Science (Specialization: Robotic Vision).</i>	Grenoble, France Nov 2024 - Ongoing
International Institute of Information Technology, Hyderabad (IIIT-H) <i>B.Tech (Hons.) + M.S. by Research in Computer Science and Engineering (CGPA: 8.11/10.00). Aug 2018 – Jul 2024</i>	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 <i>INRIA Center of the University of Grenoble Alpes (Mentors: Pia Bideau, Karteek Alahari)</i> <ul style="list-style-type: none">Working on hand-pose estimation for object grasping and manipulation.	Nov 2024 - Ongoing Grenoble, France
Student Researcher <i>Center for Visual Information Technology (CVIT), IIIT-H (Mentor: Avinash Sharma)</i> <ul style="list-style-type: none">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.	May 2020 – Jul 2024 Hyderabad, India
Research Intern <i>TCS Research (Mentors: Lokender Tiwari, Brojeshwar Bhowmick)</i> <ul style="list-style-type: none">Worked on Temporally Consistent 3D Human Pose and Shape Estimation.	Feb 2023 – Sep 2023 Kolkata, India (Remote)
Computer Vision Intern <i>Spatial Guide (Mentors: Akhil Raja and Yagna Narayana A.)</i> <ul style="list-style-type: none">Worked on in-the-wild 6-DoF Object Pose Estimation.	May 2022 – Aug 2022 Hyderabad, India
Student Researcher <i>Center for Visual Information Technology (CVIT), IIIT-H (Mentor: Vineet Gandhi)</i> <ul style="list-style-type: none">Worked on Visual Grounding for Autonomous Navigation (led to ICRA 2023 publication).	Jan 2022 – Sep 2022 Hyderabad, India
Student Trainee <i>Center for Artificial Intelligence and Robotics (CAIR) (Mentor: Arshad Jamal)</i> <ul style="list-style-type: none">Developed a Visual Question Answering (VQA) model integrated with Robot Operating System (ROS).	May 2021 – Jul 2021 Bengaluru, India (Remote)

TEACHING EXPERIENCE

- 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

- 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.