Suryansh Kumar
Assistant Professor, Texas A&M University

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LinkedIn
Website

• Visual and Spatial AI　　• Visual Representation and Geometry　　• 3D Acquisition and Generation　　• Robotics and Automation

Highlight. Texas A&M Seed Grant, Google Focused Research Grant, 6 top-tier computer science journal and 25+ peer-reviewed top-tier computer science conference publications, Best Algorithm Award from Disney Research at CVPR 2017, Nominated for Best Ph.D. Thesis 2019 at the Australian National University (ANU), ANU-HDR Merit Scholarship Award—funded by the Australian Research Council.

EDUCATION

Doctor of Philosophy (Ph.D.), Engineering and Computer Science, Australian National University　　**Awarded: Dec. 2019**
Master of Science (MS), Computer Science and Engineering, IIIT-Hyderabad　　**Awarded: July 2013**

ACADEMIC APPOINTMENTS

Texas A&M University, College Station, Assistant Professor　　**Nov. 2023—Till Date**
Visual Computing and Immersive Media, School of PVFA　　College Station, Texas, USA
- Director of Visual and Spatial AI Lab.
- Faculty Member of Virtual Production Institute, Fort Worth Texas.

ETH Zürich, Professorship and Post-Doctoral Researcher　　**Nov. 2019 — Oct. 2023**
Computer Vision Lab (CVL), D-ITET, Appointed by: Luc Van Gool　　Zürich, Switzerland
- 3D Computer Vision, Deep Learning and Robotics.
- Supervise Ph.D. thesis, MS thesis and Bachelor projects.

IIIT-Hyderabad, Research Assistant　　**Jan. 2011 — Jul. 2013**
Robotics Research Center (RRC), CSE　　Hyderabad, India
- Work on robot vision problems and assist lab.
- Visual exploration and path planning for indoor mobile robots.

INDUSTRIAL APPOINTMENTS

Google Research, New York　　**May 2019 — Aug. 2019**
- Geometric AI, Geometry Processing
- Dense shape matching

Uurmi Systems now Mathworks India　　**May 2014 — Aug. 2015**
- Computer Vision, Image Enhancement, and Robotics
- Visual Tracking, Segmentation, Structure from Motion

INRIA Grenoble (e-Motion Group), Visiting Scientist　　**Aug. 2013 — Feb. 2014**
- Autonomous Driving, Computer Vision
- State Estimation, Path Planning, Inverse Reinforcement Learning, Robotics

TEACHING

Delivered over $1000K+ in instructional services. Prepared course material, student grading, supervision and feedback.
Lecture on 3D Vision in Image Analysis and Computer Vision Course　　**ETH Zürich, Fall 2022**
Teaching Assistant for Computer Vision Course (ENGN4528/6528)　　**ANU, Feb. 2018-Jul. 2018**
Teaching Assistant for Computer Vision Course (ENGN4528/6528)　　**ANU, Feb. 2017-Jul. 2017**
Teaching Assistant for Individual Engineering Project Course (ENGN4200)　　**ANU, Feb. 2017-Jul. 2017**

COMPUTING SKILLS

Programming Language: C/C++, Python. **Scripting Language**: Matlab, Octave, Unix Shell Programming **Libraries and APIs**: OpenCV, OpenGL, Open3D, ROS, Eigen, STL, Numpy, Scipy, Pangolin. **Deep Neural Network Framework**: PyTorch, PyTorch3D. **Web and Documentation**: HTML, CSS, LaTeX. **Others**: Embedded C, Unix System Programming.

INTERNATIONAL ACADEMIC SERVICE

Reviewer: IEEE Transactions on Pattern Analysis and Machine Intelligence **(T-PAMI)**, Conference on Computer Vision and Pattern Recognition **(CVPR)**, International Conference on Learning Representations **(ICLR)**, International Conference on Computer Vision **(ICCV)**, European Conference on Computer Vision **(ECCV)**, International Conference on Robotics and Automation **(ICRA)**, Robotics and Automation Letter **(RAL)**, Conference on 3D Vision **(3DV)**, International Journal on Computer Vision **(IJCV).**