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# Suryansh Kumar

Assistant Professor, Texas A&M University

[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  
**Master of Science (MS), Computer Science and Engineering**, IIIT-Hyderabad

**Awarded: Dec. 2019**  
**Awarded: July 2013**

## ACADEMIC APPOINTMENTS

**Texas A&M University, College Station**, Assistant Professor  
Visual Computing and Computational Media (VCCM), College of PVFA

- Director of Visual and Spatial Gradient Lab.
- Faculty Member of Virtual Production Institute, Fort Worth Texas.

**Nov. 2023—Till Date**  
College Station, Texas, USA

**ETH Zürich**, Professorship  
Computer Vision Lab (CVL), D-ITET, Appointed by: Luc Van Gool

- 3D Computer Vision, Deep Learning and Robotics.
- Supervise Ph.D. thesis, MS thesis, and Bachelor projects.

**Nov. 2019 — Oct. 2023**  
Zürich, Switzerland

**IIIT-Hyderabad**, Research Assistant  
Robotics Research Center (RRC), CSE

- Work on robot vision problems and assist lab.
- Visual exploration and path planning for indoor mobile robots.

**Jan. 2011 — Jul. 2013**  
Hyderabad, India

## INDUSTRIAL APPOINTMENTS

**Google Research, New York**

- Geometric AI, Geometry Processing
- Dense shape matching

**May 2019 — Aug. 2019**

**Uurmi Systems now Mathworks India**

- Computer Vision, Image Enhancement, and Robotics
- Visual Tracking, Segmentation, Structure from Motion

**May 2014 — Aug. 2015**

**INRIA Grenoble (e-Motion Group)**, Visiting Scientist

- Autonomous Driving, Computer Vision
- State Estimation, Path Planning, Inverse Reinforcement Learning, Robotics

**Aug. 2013 — Feb. 2014**

## TEACHING

Delivered over \$1000K+ in instructional services. Prepared course material, student grading, supervision and feedback.

- Generative AI for Artist and Content Creators (VIZA689)
- Introduction to Visual Computing (VIST172)
- Lecture on 3D Computer Vision (D-ITET 227-0447-00S)
- Teaching Assistant for Computer Vision Course (ENGN4528/6528)
- Teaching Assistant for Computer Vision Course (ENGN4528/6528)
- Teaching Assistant for Individual Engineering Project Course (ENGN4200)

**TAMU, Spring 24, 25**  
**TAMU, Fall 24**  
**ETH Zürich, Fall 2022**  
**ANU, Spring 2018**  
**ANU, Spring 2017**  
**ANU, Spring 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,  $\text{\LaTeX}$ . **Others:** Embedded C, Unix System Programming.

## INTERNATIONAL ACADEMIC SERVICE

**Reviewer:** CVPR, ICLR, ICCV, ECCV, ICRA, IROS, RAL, NeurIPS, ICML