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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 — **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 Computational Media (VCCM), College of PVFA — College Station, Texas, USA
- Director of Visual and Spatial Gradient Lab.
- Faculty Member of Virtual Production Institute, Fort Worth Texas.

ETH Zürich, Professorship — **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.

- Generative AI for Artist and Content Creators (VIZA689) — **TAMU, Spring 24, 25**
- Introduction to Visual Computing (VIST172) — **TAMU, Fall 24**
- Lecture on 3D Computer Vision (D-ITET 227-0447-00S) — **ETH Zürich, Fall 2022**
- Teaching Assistant for Computer Vision Course (ENGN4528/6528) — **ANU, Spring 2018**
- Teaching Assistant for Computer Vision Course (ENGN4528/6528) — **ANU, Spring 2017**
- Teaching Assistant for Individual Engineering Project Course (ENGN4200) — **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, LaTeX. **Others**: Embedded C, Unix System Programming.

International Academic Service

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