

(+1)-xxxxx-xx6x
kx-x(at)gmail{dot}com

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, IIT-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.

IIT-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**).