

Mukund Thottankara

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Education

Ph.D. in Computer Science 2023–

University of California at San Diego (UCSD)

Advisors: Ravi Ramamoorthi, Hao Su

B.Tech. in Mechanical Engineering & M.Tech. in Robotics 2018–2023

Indian Institute of Technology Madras (IIT Madras)

Minors in Artificial Intelligence & Computer Science

Advisors: Balaraman Ravindran

Selected Publications[†]

A Generalizable Light Transport 3D Embedding for Global Illumination.

Bing Xu, Mukund Varma T, Cheng Wang, Tzuma Li, Lifan Wu, Bart Wronski, Ravi Ramamoorthi, Marco Salvi
In Submission

GAURA: Generalizable Approach for Unified Restoration and Rendering of Arbitrary Views.

Vinayak Gupta, Girish Rongali*, Mukund Varma T*, Kaushik Mitra*

ECCV 2024

A Construct-Optimize Approach to Sparse View Synthesis without Camera Pose.

Kaiwen Jiang, Yang Fu, Mukund Varma T, Yash Belhe, Xiaolong Wang, Hao Su, Ravi Ramamoorthi

SIGGRAPH 2024

Lift3D: Zero Shot Lifting of Any 2D Vision Model to 3D.

Mukund Varma T, Peihao Wang, Zhiwen Fan, Zhangyang Wang, Hao Su, Ravi Ramamoorthi

CVPR 2024

One-2-3-45: Any Single Image to 3D Mesh in 45 Seconds without Per-Shape Optimization.

Minghua Liu, Chao Xu*, Haiyan Jin*, Linghao Chen*, Mukund Varma T, Zexiang Xu, Hao Su*

NeurIPS 2023

Is Attention All That NeRF Needs?

Mukund Varma T, Peihao Wang*, Xuxi Chen, Tianlong Chen, Subhashini Venugopalan, Zhangyang Wang*

ICLR 2023

Sparse Lottery Tickets are Data Efficient Image Recognizers.

Mukund Varma T, Xuxi Chen, Zhenyu Zhang, Tianlong Chen, Subhashini Venugopalan, Zhangyang Wang

NeurIPS 2022 (Spotlight)

Point Transformer for Shape Classification and Retrieval of Urban Roof Point Clouds.

Dimple A Shajahan, Mukund Varma T*, Ramanathan Muthuganapathy*

IEEE-GRSL 2021

Research Experience

Research Intern, Apple Jun 2025 – Sep 2025

Dynamic Scene Reconstruction from In-the-Wild Videos.

Hosts: Kai-en Lin, Yi Zhou, Maneli Noorkami

[†] Please refer to the homepage for the complete list.

* indicates equal contribution.

Research Intern, Nvidia <i>Large-scale 3D Generative Model.</i> Hosts: Xiaohui Zeng, Sanja Fidler	Jun 2024 – Sep 2024
Student Researcher, Google <i>Accelerate Eye-gaze Text Entry using Context-aware Large Language Models.</i> Hosts: Subhashini Venugopalan, Shanqing Cai, Varun Gulshan	Jun 2022 – Oct 2022
Research Intern, Adobe <i>Garment-, Pose-, and Prompt-Conditioned Human Generation.</i> Hosts: Mayur K Hemani, Mausoom Sarkar, Balaji K	Mar 2022 – May 2022
Research Intern, Nvidia <i>End-to-End Trainable Object Detection-Tracking Pipeline.</i> Host: Pallab Maji	Jan 2021 – Sep 2021

Research Experience (contd.)

Research Fellow, Computational Imaging Lab (CIL), IIT Madras <i>Unified Framework for Novel View Rendering and Restoration.</i> Hosts: Kaushik Mitra	Nov 2022 – Mar 2023
Research Fellow, Robert Bosch Centre (RBCDSAI), IIT Madras <i>Neural Radiance Fields for Robotic Manipulation.</i> Hosts: Balaraman Ravindran	Jun 2022 – Mar 2023
Research Intern, Visual Informatics Group (VITA), UT Austin <i>Feedforward Generalizable View Synthesis.</i> Hosts: Peihao Wang, Tianlong Chen, Zhangyang Wang	Nov 2021 – Dec 2022
Research Fellow, Advanced Geometric Computing Lab (AGCL), IIT Madras <i>Point Cloud Understanding and Completion from Partial Scans.</i> Hosts: Dimple A Shajahan, M Ramanathan	Jan 2020 – Jan 2021

Awards

- 2023:** Jacobs School of Engineering Fellowship, UCSD
- 2022:** Silver Medal - Datathon Challenge, Indian Symposium on Machine Learning
- 2021:** National Winner - American Express Data Science Campus Challenge
- 2020:** National Winner - Flipkart Grid Challenge 2.0
- 2019:** Top 20 Startup Grant - Indian Innovation Growth Program (IIGP) 2.0
- 2019:** Microsoft AI for Earth Grant

Service

Teaching - IIT Madras

- CS6700 Reinforcement Learning, Spring 2023*
- EE5180 Introduction to Machine Learning, Spring 2023
- EE5179 Deep Learning for Imaging, Fall 2022

Reviewing

- WACV (2026)
- ICML (2025)
- ICRA (2024)
- ICCV (2023, 2025)
- CVPR (2024, 2025, 2026)
- ICLR (2023, 2024)
- NeurIPS (2022, 2023, 2024)
- Computers and Graphics Journal (2021, 2022)