

Sharath Girish

sgirish@cs.umd.edu

EDUCATION

University of Maryland, College Park

PhD. in Computer Science

Advisor: Prof. Abhinav Shrivastava

August 2019 - Present

GPA: 4.0/4.0

Indian Institute of Technology Madras, India

B.Tech. in Electrical Engineering

August 2015 - May 2019

GPA: 9.04/10

PUBLICATIONS

NIRVANA: Neural Implicit Representations of Videos with Adaptive Networks and Autoregressive Patch-wise Modeling

Shishira R Maiya*, *Sharath Girish**, Max Ehrlich, Hanyu Wang, Kwot Sin Lee, Patrick Poirson, Pengxiang Wu, Chen Wang, Abhinav Shrivastava

To appear at IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2023

LilNetX: Lightweight Networks with EXtreme Model Compression and Structured Sparsification

Sharath Girish, Kamal Gupta, Saurabh Singh, Abhinav Shrivastava

To appear at International Conference on Learning Representations (**ICLR**), 2023

Moving Beyond Handcrafted Architectures in Self-Supervised Learning

Sharath Girish, Debadeepta Dey, Neel Joshi, Vibhav Vineet, Shital Shah, Caio Cesar Teodoro Mendes, Abhinav Shrivastava, Yale Song

Under review

Towards Discovery and Attribution of Open-world GAN Generated Images

*Sharath Girish**, Saksham Suri*, Saketh Rambhatla, Abhinav Shrivastava

IEEE International Conference on Computer Vision (**ICCV**), 2021

The Lottery Ticket Hypothesis for Object Recognition

*Sharath Girish**, Shishira R Maiya*, Kamal Gupta, Hao Chen, Larry Davis, Abhinav Shrivastava

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021

A Unified Learning-Based Framework for Light Field Reconstruction From Coded Projections

Anil Kumar Vadathya, *Sharath Girish*, Kaushik Mitra

IEEE Transactions on Computational Imaging (**TCI**), 2019

Unconstrained Motion Deblurring for Dual-lens Cameras

Mahesh Mohan MR, *Sharath Girish*, AN Rajagopalan

Proceedings of the IEEE International Conference on Computer Vision (**ICCV**), 2019 (**Oral**)

A Deep Learning Framework for Light Field Reconstruction From Focus-Defocus Pair: A minimal hardware approach

Anil Kumar Vadathya, *Sharath Girish*, Kaushik Mitra

Computational Cameras and Displays Workshop, **CVPRW** 2018

PROFESSIONAL EXPERIENCE

Research Intern, Microsoft Research

Mentor - Dr. Yale Song, Dr. Debadeepta Dey

Worked on application of Neural Architecture Search on Self Supervised Learning

May 2021 - August 2021

Graduate Research Assistant, University of Maryland

Mentor - Prof. Abhinav Shrivastava

Working on Open World Image Attribution and Model Compression for Object Recognition

May 2020 - Present

Graduate Research Assistant, University of Maryland

August 2019 - May 2020

Mentor - Prof. Rama Chellappa

Worked on Activity Recognition by splitting models based on input video modalities or output activity types to improve performance.

PHD COURSEWORK

Algorithms in Machine Learning : Guarantees and Analyses, Deep Learning, Advanced Numerical Optimization, Statistical Pattern Recognition, Advanced Techniques in Visual Learning and Recognition

ACHIEVEMENTS

- **Dean's Fellowship** awarded by the University of Maryland, 2019
- **All India Rank - 274** in JEE-Advanced 2015, taken by 1.3 million students (top 0.02%)
- Awarded **KVPY** scholarship in 2014 and the **NTSE** scholarship in 2013 by Government of India