

## Research Interests

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3D Computer Vision, Image and Video Signal Processing, Machine Learning

## Education

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**Ph.D. - Indian Institute of Science (IISc), Bengaluru** Aug 2018 - May 2024  
Dept of Electrical Communication Engineering

- ◇ Advisor : Dr. Rajiv Soundararajan
- ◇ CGPA : 9.59 (PMRF Fellow)

**B.E. - PES Institute of Technology, Bengaluru** Aug 2012 - May 2016  
Dept of Electronics and Communication Engineering

- ◇ CGPA : 9.93 (Gold Medallist)

**Class XII** : 96% (District Topper) 2012  
**Class X** : 96.8% (District Topper) 2010

## Course Work

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**Mathematics** : Linear Algebra, Probability, Optimization

**Electrical** : Digital Image Processing, Computer Vision, Machine Learning for Signal Processing, Digital Video Processing, Detection and Estimation Theory

## Professional Experience

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- ◇ **SpreeAI Corporation**, Research Scientist May 2024 - Present
- ◇ **PES University**, Visiting Faculty Jan 2021 - May 2023
- ◇ **Indian Institute of Science (IISc)**, Teaching Assistant Oct 2020 - May 2022
- ◇ **Cisco Systems India Pvt Ltd**, Software Engineer Aug 2016 - Jul 2018
- ◇ **Elseem Inc.**, Research Intern Jun 2015 - Jul 2015

## Publications

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- ◇ Nagabhushan Somraj, Sai Harsha Mupparaju, Adithyan Karanayil, and Rajiv Soundararajan. Simple-RF: Regularizing sparse input radiance fields with simpler solutions. *Under review at TOG*.
- ◇ Nagabhushan Somraj, Kapil Choudhary, Sai Harsha Mupparaju, and Rajiv Soundararajan. Factorized motion fields for fast sparse input dynamic view synthesis. In *ACM SIGGRAPH*, 2024.
- ◇ Nagabhushan Somraj, Adithyan Karanayil, and Rajiv Soundararajan. SimpleNeRF: Regularizing sparse input neural radiance fields with simpler solutions. In *ACM SIGGRAPH Asia*, December 2023.
- ◇ Nagabhushan Somraj and Rajiv Soundararajan. ViP-NeRF: Visibility prior for sparse input neural radiance fields. In *ACM SIGGRAPH*, 2023.
- ◇ Nagabhushan Somraj, Pranali Sancheti, and Rajiv Soundararajan. Temporal view synthesis of dynamic scenes through 3d object motion estimation with multi-plane images. In *IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*, 2022.
- ◇ Nagabhushan Somraj, Manoj Surya Kashi, S. P. Arun, and Rajiv Soundararajan. Understanding the perceived quality of video predictions. *Signal Processing: Image Communication (SPIC)*, 102:116626, 2022.
- ◇ Vijayalakshmi Kanchana, Nagabhushan Somraj, Suraj Yadwad, and Rajiv Soundararajan. Revealing disocclusions in temporal view synthesis through infilling vector prediction. In *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2022.

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Updated on November 16, 2024

## Peer Reviews

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- ◇ CVPR, ICCV, ECCV, WACV, BMVC, ISMAR, TCSVT, TCI.
- ◇ **Outstanding Reviewer:** ECCV 2024, WACV 2024

## Projects

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- ◇ **Intra-Campus Wi-Fi Calling System** with Voice Activity Detection 2016

## Honors & Awards

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- ◇ **Best Presentation Award** at EECS Symposium 2024, IISc.
- ◇ Recipient of Prime Minister's Research Fellowship (PMRF), 2020.
- ◇ Recipient of MHRD scholarship (Govt of India) for all 4 years of B.E.