

Anirudh Bindiganavale Harish

Email : anirudhbh@rice.edu

Website : <https://anirudhbharish.github.io/>

GitHub Handle : [AnirudhBHarish](#)

EDUCATION

- **Rice University** Houston, USA
Doctor of Philosophy, Electrical and Computer Engineering *August 2023 – Present*
 - Cumulative GPA: 3.95/4.
 - Teaching Assistant - Computational Photography (Fall 2024)
- **University of California, Los Angeles** Los Angeles, USA
Master of Science, Electrical and Computer Engineering *September 2021 – June 2023*
 - Cumulative GPA: 4/4.
 - Teaching Experience: Introduction to Programming (Winter 2022 - Winter 2023), Python with Applications (Winter 2023 - Spring 2023).
- **National Institute of Technology Karnataka, Surathkal** Surathkal, India
Bachelor of Technology, Electronics and Communication Engineering *July 2016 – June 2020*
 - Cumulative GPA: 9.62/10.

PUBLICATIONS

- Chari, P.*, **Harish, A.B.***, Armouti, A., Vilesov, A., Sarda, S., Jalilian, L. and Kadambi, A., 2024, September. Implicit neural models to extract heart rate from video. In European conference on computer vision (pp. 157-175). Cham: Springer Nature Switzerland.
- Del Regno, K., Vilesov, A., Armouti, A., **Harish, A.B.**, Can, S.E., Kita, A. and Kadambi, A., 2024. Thermal imaging and radar for remote sleep monitoring of breathing and apnea. arXiv preprint arXiv:2407.11936.
- Vilesov, A.*, Chari, P.*, Armouti, A.*, **Harish, A.B.**, Kulkarni, K., Deoghare, A., Jalilian, L. and Kadambi, A., 2022. Blending camera and 77 GHz radar sensing for equitable, robust plethysmography. ACM Trans. Graph., 41(4), pp.36-1.
- **Harish, A.B.** and Sadat, F., 2020, April. Trimodal attention module for multimodal sentiment analysis (student abstract). In Proceedings of the AAAI Conference on Artificial Intelligence (Vol. 34, No. 10, pp. 13803-13804).

EXPERIENCE

- **Rice Computational Imaging Lab** Houston, USA
Graduate Research Student. Supervisor : Prof. Ashok Veeraraghavan *September 2023 - Present*
 - Creating an in-car multimodal sensing stack for driver state sensing.
 - Working on algorithms for robust vital sign estimation from remote sensors.
 - Working on blood flow imaging via laser speckle imaging.
- **UCLA VMG Lab** Los Angeles, USA
Graduate Research Student. Supervisor : Prof. Achuta Kadambi & Dr. Laleh Jalilian *September 2021 - June 2023*
 - Worked on **equitable vital sensing** for remote plethysmography with a **camera + radar** setup[[Siggraph 2022](#)]. Code can be found [here](#).
 - Open-sourced a C++ repository for **multi-threaded data-acquisition** from a **multimodal perceptual sensor stack**. List of supported sensors can be found [here](#).
 - Developing fast **neural representations** models for the human physiology.[[ECCV 2024](#)].

Los Angeles, USA

September 2021 - June 2023

- September 2021 - June 2023

San Diego, USA

June 2022 - September 2022

- June 2022 - September 2022

Bangalore, India

September 2020 - July 2021

- September 2020 - July 2021

MENTORSHIP EXPERIENCE

- **Rice University:** *Driver state sensing*

1. **Diya Gupta** (*Spring 2024 - Present*)

- **PATHS-UP:** *Monitoring respiratory signals from contact and non-contact Sensors*

1. **Maritza Apolinar** (*Texas A&M*)
2. **Tahlia Lamour** (*Washington University in St. Louis*)
3. **Megan MacLeay** (*Texas A&M*)
4. **Henry Vo** (*California State University*)

- **UCLA:** *Remote sleep monitoring of apnea*

1. **Jianchong Ma** (*now - Stanford University, MS Student*)
2. **Rui Ma** (*now - Columbia University, MS Student*)

SCHOLARSHIPS AND AWARDS

- Awarded a research scholarship at UCLA for my contribution to the research at the VMG Lab.
- Awarded the **MITACS Globalink Research Scholarship 2019** to pursue research in Canada.
- Awarded an academic scholarship at NITK for consistently ranking in the top 5 of the ECE Department.

EXTRA-CURRICULAR ACTIVITIES

- Student Organizer, [Speech, Audio and Music Processing Workshop](#), January 28th - February 1st 2020.
 - Conducted hands-on sessions for the participants as part of the NITK Diamond Jubilee Celebrations.
- Joint Secretary, IEEE NITK Student Branch, April 2019 - May 2020.
 - Co-managed the entire student branch and coordinated all the student projects in the branch.
- Organizer, [Workshop on Image Processing using OpenCV](#), MITE, August 18th 2018.
 - Conducted a session on using OpenCV for students at MITE as part of an IEEE Sub-section Event.