

Adarsh Jamadandi

Research Interests : Graph Representation Learning and
Geometric Deep Learning.
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EDUCATION

Universität des Saarlandes, Saarbrücken, Germany.

November 2020 - August 2024

Masters in Computer Science

GPA (ECTS) : 1.9/5.0. Advisor : Dr. Rebekka Burkholz

Master Thesis : On the Importance of Graph-Task Alignment for Graph Neural Networks.

B.V.Bhoomaraddi College of Engineering and Technology, Hubli, India.

August, 2014 - June, 2018

B.E in Electronics and Communication Engineering.

GPA: 8.42/10.0 Advisor: Dr. Uma Mudenagudi.

Bachelor Thesis: Anomaly Detection in Unlabeled Videos.

WORK EXPERIENCE

CISPA

Nov, 2022 - October, 2024

Research Assistant

Working on improving generalizability of graph neural networks
by tackling problems like over-squashing and over-smoothing.

Modelling and Simulation Lab, Saarland Informatics Campus.

Nov, 2021 - Jan, 2023.

Research Assistant

Working on modelling molecular spectra using graph neural networks.

KLE Technological University, Hubli, India.

April, 2019 - April, 2020

Research Associate

Responsibilities : Deep Learning for Underwater Image Enhancement.

PUBLICATIONS

5. **SoLAR : Surrogate Label Aware Graph Rewiring for Graph-Task Alignment.**

Celia Rubio-Madrigal*, Adarsh Jamadandi* and Rebekka Burkholz.

**equal contributions. Pre-Print*

(Under-review), 2024.

4. **Spectral Pruning Against Over-Squashing and Over-Smoothing.**

Adarsh Jamadandi*, Celia Rubio-Madrigal* and Rebekka Burkholz.

equal contributions. Advances in Neural Information Processing Systems, **NeurIPS, 2024.*

3. **Graph of Thrones : Adversarial Perturbations dismantle Aristocracy in Graphs.**

Adarsh Jamadandi and Uma Mudenagudi.

AAAI, Student Poster, 2021.

Extended Version in Differential Geometry meets Deep Learning Workshop, (**NeurIPS**), 2020.

2. **Probabilistic Word Embeddings in Kinematic Space**

Adarsh Jamadandi, Rishabh Tigadoli, Ramesh Tabib and Uma Mudenagudi.

*International Conference on Pattern Recognition (**ICPR**, 2020).*

1. **Exemplar Based Underwater Image Enhancement augmented
by Wavelet Corrected Transforms**

Adarsh Jamadandi and Uma Mudenagudi .

*Computer Vision and Pattern Recognition (**CVPR Workshop**, Oral), 2019.*

SELECTED AWARDS AND HONORS

- **Adarsh Jamadandi**, Sujata C, Uma Mudenagudi and Ashok Shettar,
System and Method for Video Summarization **201941003790, Patent Pending.** *January, 2019*
- **Adarsh Jamadandi** and Samar A M, Accexlron - A Rapid Prototyping Development Board.
Best US-based Project by **Hackster.io** *March, 2019.*

REFERENCES

2. Dr. Rebekka Burkholz.
1. Dr. Verena Wolf