

Adarsh Jamadandi

Research Interests : Graph Representation Learning and
Geometric Deep Learning.
Saarland Informatics Campus
Universität des Saarlandes, Saarbrücken Germany, 66123.

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🏠 <https://adarshmj.github.io>
🎓 Google Scholar

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.

Silicon14 Inc. Hubli, India.

February, 2017 - May, 2020

Chief Technology Officer and Co-Founder

Responsibilities : Develop hardware augmentations/low-cost sensors
for embedded systems and IoT.

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