

ADARSH JAMADANDI

Curriculum Vitae (19th December 2025)

CNRS Doctoral Researcher

Institut de Recherche en Informatique et Systèmes Aléatoires (IRISA)
263 Avenue du Général Leclerc, Rennes, France.

✉ Email [🏠 Personal Website](#) [🎓 Google Scholar](#) [in LinkedIn](#)

RESEARCH INTERESTS

Graph Machine Learning • Generative Models for Graphs

EDUCATION

- Sept 2025–present **Ph.D.** in Computer Science at IRISA, France.
Node features in Graph Machine Learning: Benchmarks and New models.
Advisors: Aline Roumy and Nicolas Keriven.
- Nov 2020–August 2024 **M.Sc** in Computer Science at Universität des Saarlandes, Germany.
On the Importance of Graph-Task Alignment in Graph Neural Networks.
Advisor: Rebekka Burkholz.
- 2014–2018 **B.Eng** in Electronics and Communication at KLE Technological University, India.
Anomaly Detection in Unlabelled Videos.
Advisor: Uma Mudenagudi.

WORK EXPERIENCE

- March 2025–Aug 2025 **Research Assistant** at **SprintML Lab, CISPA, Saarland, Germany.**
Memorization in Graph Neural Networks.
- Nov 2022–Oct 2024 **Research Assistant** at **RelationalML Lab, CISPA, Saarland, Germany.**
Mitigating Over-squashing and Over-smoothing via Graph Rewiring.
- March 2025–Aug 2025 **Research Assistant** at **Modeling and Simulation Lab, Germany.**
Modeling Molecular Spectra using GNNs.
- April, 2019–April 2020 **Research Associate** at **KLE Technological University, India.**
Deep Learning for Underwater Image Enhancement.
- Feb, 2017–May, 2020 **Chief Technology Officer and Co-Founder** at **Silicon14/Tweak Labs Inc.**
Low cost hardware augmentations/sensors for embedded systems and IoT.

PUBLICATIONS

- 2025 **Memorization in Graph Neural Networks.**
Adarsh Jamadandi, Jing Xu, Adam Dziedzic, and Franziska Boenisch.
Advances in Neural Information Processing Systems, **NeurIPS, 2025.**
- 2025 **GNNs Getting Comfy : Community and Feature Similarity Guided Rewiring.**
Celia Rubio-Madrigal*, Adarsh Jamadandi*, and Rebekka Burkholz.
equal contributions.* International Conference on Learning Representations, **ICLR, 2025.
- 2024 **Spectral Graph 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.
- 2021 **Graph of Thrones : Adversarial Perturbations dismantle Aristocracy in Graphs.**
Adarsh Jamadandi and Uma Mudenagudi. **AAAI, Student Poster, 2021.**
- 2019 **Exemplar Based Underwater Image Enhancement augmented by Wavelet Corrected Transforms.**
Adarsh Jamadandi and Uma Mudenagudi .
Computer Vision and Pattern Recognition (**CVPR, 2019** Workshop, Oral).

INVITED TALKS

- 2025 **NeurIPS in Paris, Sorbonne University**
Memorization in Graph Neural Networks.
- 2025 **CEVI Vision++ Talk Series, India.**
Learning on Graphs: Strategies for Improving and Understanding Generalization in Graph Neural Networks.
- 2024 **Neptune AI Video Interview.**
How spectral graph pruning can help address over-squashing and over-smoothing?
- 2024 **Helmholtz AI Conference, Dusseldorf.**
How to mitigate both over-squashing and over-smoothing in GNNs?

ACADEMIC SERVICE

- 2025 Reviewer for conference Advances in Neural Information Processing Systems (**NeurIPS**).
- 2025 Reviewer for conference Association for the Advancement of Artificial Intelligence (**AAAI**).

SELECTED AWARDS AND HONORS

- October, 2025 **NeurIPS Scholar Award**
Financial Assistance covering registration (accepted), and accommodation (declined) to present research at San Diego.
- 2019 **Adarsh Jamadandi**, Sujata C, Uma Mudenagudi and Ashok Shettar,
System and Method for Video Summarization 201941003790, Patent Pending.
- 2019 **Adarsh Jamadandi** and Samar A M, **AccexIron - A Rapid Prototyping Development Board.**
Best US-based Project by Hackster.io.