

ADARSH JAMADANDI

Curriculum Vitae (19th December 2025)

CNRS Doctoral Researcher

Institut de Recherche en Informatique et Systèmes Aléatoires (IRISA)
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[✉ 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. <i>Node features in Graph Machine Learning: Benchmarks and New models.</i> Advisors: Aline Roumy and Nicolas Keriven.
Nov 2020–August 2024	M.Sc in Computer Science at Universität des Saarlandes, Germany. <i>On the Importance of Graph-Task Alignment in Graph Neural Networks.</i> Advisor: Rebekka Burkholz.
2014–2018	B.Eng in Electronics and Communication at KLE Technological University, India. <i>Anomaly Detection in Unlabelled Videos.</i> Advisor: Uma Mudenagudi.

WORK EXPERIENCE

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

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.