

## Work Experience

- 2022–2024 **Postdoctoral Research Fellow,**  
School of Computing,  
National University of Singapore,  
Supervisor: Prof. Arnab Bhattacharyya.
- 2017 Research Intern,  
International Business Machines Corporation (IBM),  
Group: India Research Labs (IBM-IRL),  
Topic: Canonicalisation of Open Knowledge Bases.
- 2012 Intern,  
Integra Micro Systems,  
Group: Product Team,  
Topic: Android Mobile File Transfer using C Programming.

## Research Focus

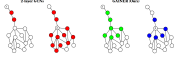
Deep Learning with Graph Neural Networks,  
Learning Rich Structures, e.g., Causal Graphs, Hypergraphs.

## Education

- 2016–2021 **Ph.D.,**  
Department of Computer Science and Automation,  
Indian Institute of Science, Bangalore, India,  
*Thesis: Deep Learning over Hypergraphs,*  
*Advisor: Prof. Partha Talukdar.*
- 2014–2016 M.Tech. in Information Technology,  
International Institute of Information Technology, Bangalore, India,  
*Advisor: Prof. Ashish Choudhury.*

## Publications

8



[GAINER: Graph Machine Learning with Node-specific Radius for Classification of Texts](#),  
Naganand Yadati,

In the European Chapter of the Association for Computational Linguistics (EACL) 2024.

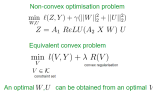
7



[HEAL: Unlocking the Potential of Learning on Hypergraphs Enriched with Attributes and Layers](#),  
Naganand Yadati, Tarun Kumar, Deepak Maurya, Balaraman Ravindran, and Partha Talukdar,

In the Learning on Graphs Conference (LoG) 2023,  
[poster](#).

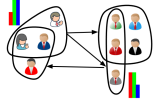
6



[A Convex Formulation for Graph Convolutional Training: Two Layer Case](#),  
Naganand Yadati,

In IEEE International Conference on Data Mining (ICDM) 2022,  
[slides](#) | [code](#).

5



[Graph Neural Networks for Soft Semi-Supervised Learning on Hypergraphs](#),

Naganand Yadati, Tingran Gao, Shahab Asoodeh, Partha Talukdar, and Anand Louis,

In Proceedings of 25th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD) 2021,  
[code](#).

4



[Knowledge Base Question Answering through Recursive Hypergraphs](#),

Naganand Yadati, Dayanidhi R S, Vaishnavi S, Indira K M, and Srinidhi G,

In Proceedings of the European Association for Computational Linguistics (EACL) 2021,  
[video](#).

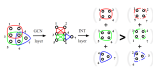
3



[Neural Message Passing for Multi-Relational Ordered and Recursive Hypergraphs](#),  
Naganand Yadati,

In Advances in Neural Information Processing Systems (NeurIPS) 2020,  
[virtual page](#) | [code](#).

2

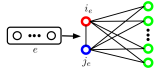


[NHP: Neural Hypergraph Link Prediction](#),

Naganand Yadati, Vikram Nitin, Madhav Nimishakavi, Prateek Yadav, Anand Louis, and Partha Talukdar,

In Proceedings of the ACM Conference on Information & Knowledge Management (CIKM) 2020,  
[video](#) | [code](#).

1



[HyperGCN: A New Method For Training Graph Convolutional Networks on Hypergraphs](#),  
Naganand Yadati, Madhav Nimishakavi, Prateek Yadav, Vikram Nitin, Anand Louis, and Partha Talukdar,  
In Advances in Neural Information Processing Systems (NeurIPS) 2019,  
[slides](#) | [code](#).

## Tutorial



[Graph-based Deep learning in Natural Language Processing](#),  
Shikhar Vashishth, [Naganand Yadati](#), and Partha Talukdar,  
In Empirical Methods in Natural Language Processing (EMNLP) 2019,  
CoDS-COMAD 2020: 7th ACM IKDD CoDS and 25th COMAD,  
[code](#) | [video part 1](#) | [video part 2](#).

## Workshop Moderatorship



[Graphs and More Complex Structures for Learning and Reasoning \(GCLR\)](#),  
Tarun Kumar, Deepak Maurya, Nikita Moghe, [Naganand Yadati](#), Jeshuran Chelladurai, and Aparna Rai,  
In The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI), 2021,  
[videos](#).

## Program Committee Membership

- 2020- Neural Information Processing Systems (NeurIPS),
- 2021- International Conference on Machine Learning (ICML),
- 2020- International Conference on Learning Representations (ICLR),
- 2022- Learning on Graphs Conference (LoG),
- 2021 Association for the Advancement of Artificial Intelligence (AAAI),
- 2021 Transactions on Pattern Analysis and Machine Intelligence (TPAMI),
- 2020 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD),
- 2020 Neurocomputing.

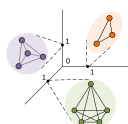
## Awards

- 2022 Outstanding Reviewer for ICML 2022 (Top 10%),
- 2021 Expert Reviewer for ICML 2021,
- 2020 Top 10% Reviewer for NeurIPS 2020,
- 2019 Google Travel Grant for NeurIPS 2019.

## Invited Talks

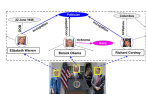
- 2022 School of Computing Seminar: Learning over Hypergraphs
- 2022 ShareChat, Deep Learning over Hypergraphs for Recommendation
- 2021 Microsoft Cambridge, Deep Learning over Hypergraphs
- 2019 Indian Institute of Science Seminar, Graph Convolution on Hypergraphs
- 2017 Ramaiah Institute Of Technology, Introduction to Deep Learning

## Co-authored Publications



### [Lovasz Convolutional Networks,](#)

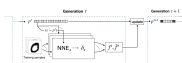
Prateek Yadav, Madhav Nimishakavi, [Naganand Yadati](#), Shikhar Vashishth, Arun Rajkumar, and Partha Talukdar, In International Conference on Artificial Intelligence and Statistics (AISTATS) 2019, [code](#).



### [KVQA: Knowledge-aware Visual Question Answering,](#)

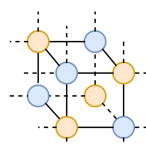
Sanket Shah, Anand Mishra, [Naganand Yadati](#), and Partha Talukdar,, In The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI) 2019, [website](#).

## Workshop Papers



### [Biologically Plausible Neural Networks via Evolutionary Dynamics and Dopaminergic Plasticity,](#)

Sruthi Gorantla, Anand Louis, Christos H Papadimitriou, Santosh Vempala, and [Naganand Yadati](#), In Real Neurons & Hidden Units @ NeurIPS 2019.



### [MT-CGCNN: Integrating Crystal Graph Convolutional Neural Network with Multitask Learning for Material Property Prediction,](#)

Soumya Sanyal, Janaki Balachandran, [Naganand Yadati](#), Abhishek Kumar, Padmini Rajagopalan, Suchismita Sanyal, and Partha Talukdar, In NeurIPS 2018 Workshop on Machine Learning for Molecules.

## Teaching Assistantship

2018 Linear Algebra and Applications.

## Academic Courses

- Ph.D. Real Analysis, Linear Algebra and Applications, Probability and Statistics, and Pattern Recognition and Neural Networks.
- M.Tech. Approximation Algorithms, Foundations of Big Data Algorithms, and Algorithms for Massive Data.

## Skills

Programming Python, PyTorch, C

Tools LaTeX, OCTAVE

OS Linux (Ubuntu), Windows

## Academic Recognitions

- 2014 All India Rank of **944** Post-graduate Admissions
- 2013 Summer School Award for Problem Solving in Algorithms
- 2010 All State Rank of **209** for University Admissions
- 2008 Scores of **100/100** in Mathematics in Pre-University Course as well as 10th Grade