

Naganand Yadati

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Google Scholar

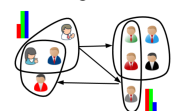
Education

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

Research Focus

Deep Learning Emphasis on Graph neural networks, Learning on hypergraphs and other complex structures (such as heterogeneous graphs, temporal graphs, etc.).

Publications

- 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](#).
- 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,
[slides](#) | [code](#).
- 3  [Neural Message Passing for Multi-Relational Ordered and Recursive Hypergraphs](#),
Naganand Yadati,
In Advances in Neural Information Processing Systems (NeurIPS) 2020,
[neurips page](#) | [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 (Short).
- 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](#).

Awards

- 2021 Expert Reviewer for ICML 2021.
- 2020 Top 10% Reviewer for NeurIPS 2020.
- 2019 Google Travel Grant for NeurIPS 2019.

Tutorial



[Graph-based Deep Learning in Natural Language Processing](#),

Shikhar Vashishth, Naganand Yadati, and Partha Talukdar,

In Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP): Tutorial Abstracts

CoDS-COMAD 2020: 7th ACM IKDD CoDS and 25th COMAD,

[slides](#) | [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,

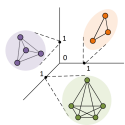
In The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI), 2021,

[videos](#).

Program Committee Membership

- 2021 TPAMI, ICML, ICLR, AAAI.
- 2020 NeurIPS, ECML-PKDD, ICLR.

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,

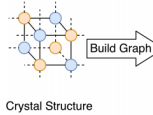
In The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI) 2019,

[website](#).

Workshop Papers



[Biologically Plausible Neural Networks via Evolutionary Dynamics, Dopaminergic Plasticity](#),
Sruthi Gorantla, Anand Louis, Christos H Papadimitriou, Santosh Vempala, 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.

Manuscript Under Review

- 1) HEAL: Embedding Multi-Layer Hypergraphs.
Naganand Yadati, Tarun Kumar, Deepak Maurya, Partha Talukdar, and Balaraman Ravindran

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

Languages/Tools Python, C, PyTorch/Tensorflow, Linux, and Git.