

Naganand Yadati

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Google Scholar

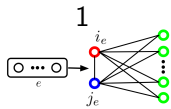
Education

- 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.

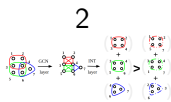
Research Focus

- Deep Learning Emphasis on Graph Neural Networks, Learning on Hypergraphs and other Complex Structures (such as Heterogeneous Graphs, Temporal Graphs, etc.).

Publications



- [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](#).



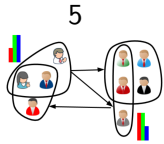
- [NHP: Neural Hypergraph Link Prediction](#),
Naganand Yadati, Vikram Nitin, Madhav Nimishakavi, Prateek Yadav, Anand Louis, and Partha Talukdar,
In Proceedings of the ACM Conference on Information & Knowledge Management (CIKM) 2020,
[slides](#) | [code](#).



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



- [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).



[Graph Neural Networks for Soft Semi-Supervised Learning on Hypergraphs](#),
Naganand Yadati, *Tingran Gao, Shahab Asodeh, Partha Talukdar, and Anand Louis*,
 In Proceedings of 25th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD) 2021,
[code](#).

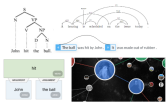
Program Committee Membership

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

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](#).

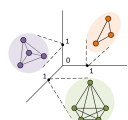
Invited Talks

- 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.

Work Experience

- 2017 Research Intern, International Business Machines Corporation (IBM),
Group: IBM-IRL (India Research Labs) ,
Topic: Canonicalisation of Open Knowledge Bases.
- 2012 Intern, Integra Micro Systems,
Group: Product Team,
Topic: Android Mobile File Transfer using C Programming.

Co-authored Publications



Lovasz Convolutional Networks,

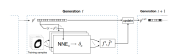
Prateek Yadav, Madhav Nimishakavi, Naganand Yadati, Shikhar Vashishth, Arun Rajkumar, and Partha Talukdar, In International Conference on Artificial Intelligence and Statistics (AISTATS) 2019, [code](#).



KVQA: Knowledge-Aware Visual Question Answering,

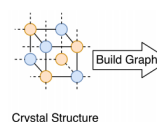
Sanket Shah, Anand Mishra, Naganand Yadati, and Partha Talukdar, In The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI) 2019, [website](#).

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

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