

# Naganand Yadati

✉ [naganand@iisc.ac.in](mailto:naganand@iisc.ac.in)  
Google Scholar

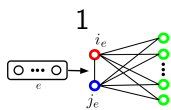
## Education

- 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.*

## 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](#).



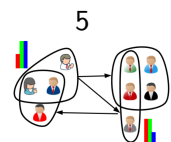
[NHP: Neural Hypergraph Link Prediction](#),  
Naganand Yadati, Vikram Nitin, Madhav Nimishakavi, Prateek Yadav, Anand Louis, and Partha Talukdar,  
In Proceedings of the ACM Conference on Information & Knowledge Management (CIKM) 2020,  
[slides](#) | [code](#).



[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 .



[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,

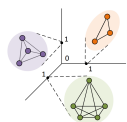
*Shikhar Vashishth, Naganand Yadati, and Partha Talukdar,*

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](#).

## 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](#).

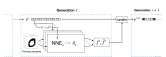


### KVQA: Knowledge-Aware Visual Question Answering,

*Sanket Shah, Anand Mishra, Naganand Yadati, and Partha Talukdar,*

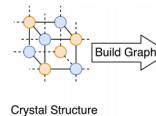
In The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI) 2019,  
[website](#).

## 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.