

SHIKHAR VASHISHTH

CONTACT INFORMATION	GHC 5715, Carnegie Mellon University 5000 Forbes Av, Pittsburgh, PA – 15213	<i>Email:</i> svashish@cs.cmu.edu <i>Links:</i> Webpage , Scholar , Github
EDUCATION	Indian Institute of Science , Bangalore PhD + M.Tech at <i>Dept. of Computer Science and Automation</i> Thesis: Neural Graph Embedding Methods for NLP [link] Advisors: Partha Talukdar , Chiranjib Bhattacharyya , Manaal Faruqui Committee: Soumen Chakrabarti , Fabian Suchanek Recipient of Google PhD Fellowship Birla Institute of Technology and Science, Pilani ; Pilani <i>M.Sc.(Tech.) Information Systems</i> With Distinction, Rank #1 in branch	2016-2020 GPA: 9.1/10 2012-2016 GPA: 9.18/10
WORK EXPERIENCE	Carnegie Mellon University , Pittsburgh <i>Postdoctoral Researcher, LTI, School of Computer Science</i> Advisor: Carolyn Rose Google Research , New York <i>Research Intern, Google Assistant Team</i> ADAPT Lab , BITS Pilani, India <i>Undergraduate Thesis</i> (Advisor: Navneet Goyal) Worked on designing a hybrid algorithm for Principal Components Analysis (PCA). Microsoft IDC , Hyderabad, India <i>SDE Intern, Microsoft Office Team</i> Worked on integrating Google Sign-in in Office android apps for reducing user friction. CMC Ltd , Mumbai, India <i>SDE Intern, Java and Web Development Team</i> Worked with LEARN team on enhancing interactivity of project's web pages.	01/20 - Present 05/19 - 09/19 01/16 - 05/16 05/15 - 07/15 05/14 - 07/14
PUBLICATIONS	<u>Shikhar Vashishth</u> , R. Joshi, R. Dutt, D. Newman-Griffis, C. Rose. “ MedType: Improving Medical Entity Linking with Semantic Type Prediction ”, [Under Review]. <u>Shikhar Vashishth</u> , S. Upadhyay, G. S. Tomar, M. Faruqui. “ Attention Interpretability Across NLP Tasks ”, [Under Review]. Z. Sun*, <u>Shikhar Vashishth</u> *, S. Sanyal*, P. Talukdar, Y. Yang. “ A Re-evaluation of Knowledge Graph Completion Methods ” Proceedings of Association of Computational Linguistics (ACL 2020), Seattle, USA. <u>Shikhar Vashishth</u> *, S. Sanyal*, V. Nitin, P. Talukdar. “ CompGCN: Composition-based Multi-Relational Graph Convolutional Networks ”, Proceedings of International Conference on Learning Representations (ICLR 2020), Ethiopia. <u>Shikhar Vashishth</u> *, S. Sanyal*, V. Nitin, N. Agrawal, P. Talukdar. “ InteractE:	

Improving Convolution based Knowledge Graph Embeddings by Increasing Feature Interactions, Proceedings of 34th Conference on Artificial Intelligence (**AAAI 2020**), New York, NY, USA.

Shikhar Vashishth, M. Bhandari, P. Yadav, P. Rai, C. Bhattacharyya, P. Talukdar. **“Incorporating Syntactic and Semantic Information in Word Embeddings using Graph Convolutional Networks”**, Proceedings of Association of Computational Linguistics (**ACL 2019**), Florence, Italy.

P. Yadav, M. Nimishakavi, N. Yadati, Shikhar Vashishth, A. Rajkumar, P. Talukdar. **“Lovasz Convolutional Networks”**. Proceedings of International Conference on Artificial Intelligence and Statistics (**AISTATS 2019**), Naha, Okinawa, Japan.

Shikhar Vashishth*, P. Yadav*, M. Bhandari*, P. Talukdar. **“Confidence-based Graph Convolutional Networks for Semi-Supervised Learning”**. Proceedings of International Conference on Artificial Intelligence and Statistics (**AISTATS 2019**), Naha, Okinawa, Japan.

Shikhar Vashishth, R. Joshi, S. P. Suman, C. Bhattacharyya, P. Talukdar. **“RESIDE: Improving Distantly-Supervised Neural Relation Extraction using Side Information”**, Proceedings of Conference on Empirical Methods in Natural Language Processing (**EMNLP 2018**), Brussels, Belgium.

Shikhar Vashishth, S. S. Dasgupta, S. N. Ray, P. Talukdar. **“Dating Documents using Graph Convolution Networks”**, Proceedings of Association of Computational Linguistics (**ACL 2018**), Melbourne, Australia.

Shikhar Vashishth P. Jain, P. Talukdar. **“CESI: Canonicalizing Open Knowledge Bases using Embeddings and Side Information”**. Proceedings of The Web Conference 2018 (**WWW 2018**), Lyon, France. [Acceptance Rate: 14.8 %]

Y. Sinha, Shikhar Vashishth, K Hari Babu. **“Meticulous Measurement of Control Packets in SDN”**. Proceedings of ACM Symposium on SDN Research, (**SOSR 2017**), Santa Clara, CA.

Shikhar Vashishth, Y. Sinha, K Hari Babu. **“Addressing Challenges in Browser Based P2P Content Sharing Framework Using WebRTC”**. Proceedings of 30th IEEE International Conference on Advanced Information Networking and Applications, (**AINA 2016**), Switzerland.

Y. Sinha, Shikhar Vashishth, K Hari Babu. **“Real Time Monitoring of Packet Loss in Software Defined Networks”**. Proceedings of International Conference on Ubiquitous Communications and Network Computing 2017.

Y. Sinha, Shikhar Vashishth, K Hari Babu. **“Estimation of raw packets in SDN”**. Proceedings of International Conference on Ubiquitous Communications and Network Computing 2017.

Shikhar Vashishth, Y. Sinha, K Hari Babu. **“A Browser-based Distributed Framework for Content Sharing and Student Collaboration”**. Proceedings of 4th International Conference on Advanced Computing, Networking, and Informatics.

SKILLS

Programming Languages: Python, C, C++, Java, R, MatLab, JavaScript, NodeJS
Tools and Systems: TensorFlow/Pytorch, Open-GL/MP/CV, MPI, Linux, Git

POSITION OF RESPONSIBILITY	Tutorial: Graph-based Deep Learning in NLP (400+ attendees) <i>2019 Conference on Empirical Methods in Natural Language Processing</i> [Webpage]	
	Reviewer for ACL, EMNLP, ICLR, CoNLL, AAAI Neurocomputing Journal, Natural Language Engineering.	2019 - Present
	Teaching Assistant for Algorithms and Programming Indian Institute of Science, Bangalore.	Fall 2018
	Teaching Assistant for Data mining Birla Institute of Science and Technology, Pilani.	Spring 2019
	Techno team head at Nirmaan Organization Supervised team in online and on campus publicity of Nirmaan.	Fall 2014
HONORS AND AWARDS	<ul style="list-style-type: none"> • Recipient of Google India PhD Fellowship 2018. • Microsoft Research grant for attending ACL 2018, Melbourne. • Google Travel grant for attending WWW 2018, Lyon, France. • BITSAA Travel grant for attending AINA 2016, Switzerland. • Secured 49th rank (top 0.04%) in GATE 2016 CSIT. • Qualified for ACM ICPC 2014 Kharagpur regionals. • Secured 8,848 rank (top 1.8%) in IIT-JEE • Secured 4,334 rank (top 0.74%) in AIEEE 	
REFERENCES	Prof. Partha Pratim Talukdar <i>Associate Professor, Indian Institute of Science</i> <i>322 CDS, IISc Bangalore, India - 560012</i> <i>Email: ppt@iisc.ac.in, Ph: +91-80-2293-2789</i>	PhD Advisor
	Prof. Chiranjib Bhattacharyya <i>Professor, Indian Institute of Science</i> <i>Dept of CSA, IISc Bangalore, India - 560012</i> <i>Email: chiru@iisc.ac.in, Ph: +91-80-2293-2468</i>	PhD Advisor
	Prof. Carolyn Rose <i>Professor, Carnegie Mellon University</i> <i>GHC 5415, 5000 Forbes, Pittsburgh, USA - 15213</i> <i>Email: cprose@cs.cmu.edu, Ph: +1 (412) 268-7130</i>	PostDoc Advisor