

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]. R. Joshi, V. Balachandran, <u>Shikhar Vashishth</u> , A. Black, Y. Tsvetkov. “ DialoGraph: Incorporating Interpretable Strategy-Graph Networks into Negotiation Dialogues ”, [Under Review]. S. Khosla, <u>Shikhar Vashishth</u> , J. F. Lehman, C. Rose. “ Improving Detection and Categorization of Task-relevant Utterances through Integration of Discourse Structure and Ontological Knowledge ”, Proceedings of Conference on Empirical Methods in Natural Language Processing (EMNLP 2020) <u>Shikhar Vashishth</u> , S. Upadhyay, G. S. Tomar, M. Faruqui. “ Attention Interpretability Across NLP Tasks ”, [Under Review].	

Z. Sun*, [Shikhar Vashishth](#)*, S. Sanyal*, P. Talukdar, Y. Yang. **“A Re-evaluation of Knowledge Graph Completion Methods”** Proceedings of Association of Computational Linguistics (**ACL 2020**), Seattle, USA.

[Shikhar Vashishth](#)*, S. Sanyal*, V. Nitin, P. Talukdar. **“CompGCN: Composition-based Multi-Relational Graph Convolutional Networks”**, Proceedings of International Conference on Learning Representations (**ICLR 2020**), Ethiopia.

[Shikhar Vashishth](#)*, 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”**.

	<p>Proceedings of International Conference on Ubiquitous Communications and Network Computing 2017.</p> <p><u>Shikhar Vashishth</u>, 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.</p>	
SKILLS	<p>Programming Languages: Python, C, C++, Java, R, MatLab, JavaScript, NodeJS</p> <p>Tools and Systems: TensorFlow/Pytorch, Open-GL/MP/CV, MPI, Linux, Git</p>	
POSITION OF RESPONSIBILITY	<p>Tutorial: Graph-based Deep Learning in NLP (400+ attendees) <i>2019 Conference on Empirical Methods in Natural Language Processing</i> [Webpage]</p> <p>Reviewer for ACL, EMNLP, ICLR, CoNLL, EACL, AACL, AAAI RepL4NLP, Neurocomputing, Natural Language Engineering. 2019 - Present</p> <p>Teaching Assistant for Algorithms and Programming Fall 2018 Indian Institute of Science, Bangalore.</p> <p>Teaching Assistant for Data mining Spring 2019 Birla Institute of Science and Technology, Pilani.</p> <p>Technology head at Nirmaan Organization Fall 2014 Supervised team in online and on campus publicity of Nirmaan.</p>	
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	<p>Prof. Partha Pratim Talukdar PhD Advisor <i>Associate Professor, Indian Institute of Science</i> 322 CDS, IISc Bangalore, India - 560012 Email: ppt@iisc.ac.in, Ph: +91-80-2293-2789</p> <p>Prof. Chiranjib Bhattacharyya PhD Advisor <i>Professor, Indian Institute of Science</i> Dept of CSA, IISc Bangalore, India - 560012 Email: chiru@iisc.ac.in, Ph: +91-80-2293-2468</p> <p>Prof. Carolyn Rose PostDoc Advisor <i>Professor, Carnegie Mellon University</i> GHC 5415, 5000 Forbes, Pittsburgh, USA - 15213 Email: cprose@cs.cmu.edu, Ph: +1 (412) 268-7130</p>	