

## SHIKHAR VASHISHTH

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CONTACT INFORMATION	GHC 5715, Carnegie Mellon University 5000 Forbes Av, Pittsburgh, PA – 15213	Email: <a href="mailto:svashish@cs.cmu.edu">svashish@cs.cmu.edu</a> Links: <a href="#">Webpage</a> , <a href="#">Scholar</a> , <a href="#">Github</a>
EDUCATION	<b>Carnegie Mellon University</b> , Pittsburgh <i>Postdoctoral Research Associate, Language Technologies Institute</i> Information Extraction in Medical Documents and Patents Advisor: <a href="#">Carolyn Rose</a>	01/20 - Present
	<b>Indian Institute of Science</b> , Bangalore <b>PhD + M.Tech</b> at Dept. of Computer Science and Automation Thesis: Neural Graph Embedding Methods for NLP <a href="#">[link]</a> Advisors: <a href="#">Partha Talukdar</a> , <a href="#">Chiranjib Bhattacharyya</a> , <a href="#">Manaal Faruqui</a> Committee: <a href="#">Soumen Chakrabarti</a> , <a href="#">Fabian Suchanek</a> <i>ACM India Doctoral Dissertation Award &amp; Google PhD Fellowship</i>	2016-2020 GPA: 9.1/10
	<b>Birla Institute of Technology and Science, Pilani</b> ; Pilani <i>M.Sc.(Tech.) Information Systems</i> With Distinction, Rank #1 in branch	2012-2016 GPA: 9.18/10
WORK EXPERIENCE	<b>Google Research</b> , New York <i>Research Intern, Google Assistant Team</i> Worked on understanding Attention Mechanism in NLP	05/19 - 09/19
	<b>ADAPT Lab</b> , BITS Pilani, India <i>Undergraduate Thesis</i> (Advisor: <a href="#">Navneet Goyal</a> ) Worked on designing a hybrid algorithm for Principal Components Analysis (PCA).	01/16 - 05/16
	<b>Microsoft IDC</b> , Hyderabad, India <i>SDE Intern, Microsoft Office Team</i> Worked on integrating Google Sign-in in Office android apps for reducing user friction.	05/15 - 07/15
	<b>CMC Ltd</b> , Mumbai, India <i>SDE Intern, Java and Web Development Team</i> Worked with LEARN team on enhancing interactivity of project's web pages.	05/14 - 07/14
PUBLICATIONS	R. Joshi, V. Balachandran, <a href="#">Shikhar Vashishth</a> , A. Black, Y. Tsvetkov. “ <b>DialoGraph: Incorporating Interpretable Strategy-Graph Networks into Negotiation Dialogues</b> ”, Proceedings of International Conference on Learning Representations (ICLR 2021), Vienna, Australia.	
	<a href="#">Shikhar Vashishth</a> , R. Joshi, R. Dutt, D. Newman-Griffis, C. Rose. “ <b>MedType: Improving Medical Entity Linking with Semantic Type Prediction</b> ”, Accepted as poster at American Medical Informatics Association (AMIA 2021). [CORE: A]	
	S. Khosla, <a href="#">Shikhar Vashishth</a> , J. F. Lehman, C. Rose. “ <b>Improving Detection and Categorization of Task-relevant Utterances through Integration of Discourse Structure and Ontological Knowledge</b> ”, Proceedings of Conference on Empirical Methods in Natural Language Processing (EMNLP 2020) [CORE: A]	
	<a href="#">Shikhar Vashishth</a> , S. Upadhyay, G. S. Tomar, M. Faruqui. “ <b>Attention Interpretabil-</b>	

ity Across NLP Tasks”.

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. [CORE: A\*]

[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. [CORE: A\*]

[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. [CORE: A\*]

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. [CORE: A]

[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. [CORE: A]

[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. [CORE: A]

[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. [CORE: A\*]

[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 %] [CORE: A\*]

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. [CORE: B]

Y. Sinha, [Shikhar Vashishth](#), K Hari Babu. “**Real Time Monitoring of Packet**

	<p><b>Loss in Software Defined Networks</b>". Proceedings of International Conference on Ubiquitous Communications and Network Computing 2017.</p> <p>Y. Sinha, <u>Shikhar Vashishth</u>, K Hari Babu. <b>"Estimation of raw packets in SDN"</b>. Proceedings of International Conference on Ubiquitous Communications and Network Computing 2017.</p> <p><u>Shikhar Vashishth</u>, Y. Sinha, K Hari Babu. <b>"A Browser-based Distributed Framework for Content Sharing and Student Collaboration"</b>. Proceedings of 4th International Conference on Advanced Computing, Networking, and Informatics.</p>	
SKILLS	<p><b>Programming Languages:</b> Python, C, C++, Java, R, MatLab, JavaScript, NodeJS</p> <p><b>Tools and Systems:</b> TensorFlow/Pytorch, Open-GL/MP/CV, MPI, Linux, Git</p>	
POSITION OF RESPONSIBILITY	<p><b>Tutorial: Graph-based Deep Learning in NLP</b> (400+ attendees)  <i>2019 Conference on Empirical Methods in Natural Language Processing</i> <a href="#">[Webpage]</a></p> <p><b>Reviewer for ACL, EMNLP, ICLR, CoNLL, EACL, AACL AAI, COLING, RepL4NLP, Neurocomputing.</b> 2019 - Present</p> <p><b>Teaching Assistant for Algorithms and Programming</b> Fall 2018  Indian Institute of Science, Bangalore.</p> <p><b>Teaching Assistant for Data mining</b> Spring 2019  Birla Institute of Science and Technology, Pilani.</p> <p><b>Technology head at Nirmaan Organization</b> Fall 2014  Supervised team in online and on campus publicity of Nirmaan.</p>	
HONORS AND AWARDS	<ul style="list-style-type: none"> <li>• Recipient of ACM India Doctoral Dissertation Award 2021.</li> <li>• Recipient of Google India PhD Fellowship 2018.</li> <li>• Microsoft Research grant for attending ACL 2018, Melbourne.</li> <li>• Google Travel grant for attending WWW 2018, Lyon, France.</li> <li>• BITSAA Travel grant for attending AINA 2016, Switzerland.</li> <li>• Secured 49th rank (top 0.04%) in GATE 2016 CSIT.</li> <li>• Qualified for ACM ICPC 2014 Kharagpur regionals.</li> <li>• Secured 8,848 rank (top 1.8%) in IIT-JEE</li> <li>• Secured 4,334 rank (top 0.74%) in AIEEE</li> </ul>	
REFERENCES		

**Prof. Partha Pratim Talukdar**

PhD Advisor

*Associate Professor, Indian Institute of Science  
322 CDS, IISc Bangalore, India - 560012  
Email: ppt@iisc.ac.in, Ph: +91-80-2293-2789*

**Prof. Chiranjib Bhattacharyya**

PhD Advisor

*Professor, Indian Institute of Science  
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**Prof. Carolyn Rose**

PostDoc Advisor

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