Sujay Kumar Jauhar - Curriculum Vitae

Office Address Office 3971, Microsoft Building 99 Redmond, WA 98052 USA		Contact Information sjauhar@microsoft.com (904) 4JA-UHAR www.microsoft.com/en-us/ research/people/sjauhar
Professional Experience	 Microsoft Research AI Applied Scientist Redmond, WA, USA Group: Knowledge Technologies Group Mission: Infuse AI into Microsoft Office products 	(2017 - present)
Education	 PhD in Language Technology (2012 - 2017) Carnegie Mellon University, Pittsburgh, PA, USA Thesis: A Relation-Centric View of Semantic Representation Learning Advisor: Eduard Hovy 	
	 Masters in Language Technology Carnegie Mellon University, Pittsburgh, PA, USA Advisor: Eduard Hovy GPA: 4.0 	(2012 - 2014)
	 Masters in Natural Language Processing and Human Language Technology Jointly from University of Wolverhampton, UK & Unive Thesis: A New Task for English Lexical Simplification Advisor: Lucia Specia 	
	 Bachelors Degree Sri Aurobindo International Centre of Education (SAIC Academic Foci: Mathematics, Computer Science, 	
Internships	 Allen Institute for AI Research Intern Seattle, WA, USA Mentor: Peter Turney Project: Multiple-choice question answering with 	Summer 2015 tables
	 Google Research Intern Mountain View, CA, USA Mentor: Marta Recasens Project: Coreference resolution of discourse deiction 	Summer 2014
	 Microsoft Research Research Intern Bangalore, India Mentor: A. Kumaran Project: Gaming paradigm to generate language of 	Summer 2011 data
Profession Activities	Co-organizer, English Lexical Simplification shared task at SemEval-2012 Reviewer, ACL, NAACL, EMNLP, COLING, *SEM	

Honors and Prizes	• Young Researcher attendee (among 200 selected worldwide) of the 5th Heidelbe Laureate Forum (2017)	
	• AI3 award at Allen Institute for AI (2015)	
	• Best paper award at the NAACL-2015 main conference (2015)	
	• Graduated with distinction from Erasmus Mundus program (2012)	
	• Lexical Simplification system ranked 1st overall on SemEval-2012 shared task (2012)	
	• Erasmus Mundus Scholarship (2011 - 2012)	
	• Prize for the Best Student SAICE (2009)	
	• Prize for Academic Excellence SAICE (2007 - 2009)	
Computer Skills	Languages:Python, Scala, Java, C/C++, Octave/MatlabSoftware:Experience working with most popular open-source NLP toolsPlatforms:Windows, Mac OS and Linux	
Languages	Fluent:English, French, Hindi, OriyaModerate:BengaliBeginner:Spanish, Tamil	
Teaching		
Experience	 TA for 11-721 Grammars and Lexicons in Fall 2014 at CMU TA for 10 601 Machine Learning in Spring 2014 at CMU 	
	• TA for 10-601 Machine Learning in Spring 2014 at CMU	
	• English to intermediate 2nd language learner student (from France) at EMANCI Language Institute, Pondicherry	
	• English Writing, Literature, and Mathematics to High School Students at SAICE	
Invited Talks	• "Knowledge Representation with Structured Semantic Feature Spaces" – at Allen Institute for AI, Amazon Alexa, Bloomberg and Google, May–Jun. 2017.	
	• "Vectors and Ontologies: A Love Story in Two Acts" – at AI2's AI Academy Talk series, Seattle, Aug. 2015.	
	• "Leveraging Semantic Relations for Better Distributional Representation Learn- ing" – at Google NLP Reading Group, Mountain View, Aug. 2014.	
	 "An Introduction to Natural Language Processing" – at SAICE, Pondicher India, Aug. 2013. 	
	• "Integral Education" - at The Mother's International School, New Delhi, India, Aug. 2010.	
Publications	Theses	
	• Sujay K. Jauhar. (2017). A Relation-Centric View of Semantic Representation Learning. PhD Thesis: Carnegie Mellon University, Pittsburgh, PA, USA.	
	• Sujay K. Jauhar. (2012). A New Task for Lexical Simplification. Masters The- sis: University of Wolverhampton, UK & Université de Franche-Comté, France	

Peer-reviewed Conference & Workshop Proceedings

2017

• Sujay K. Jauhar and Eduard Hovy. (2017). Embedded Semantic Lexicon Induction with Joint Global and Local Optimization. Proceedings of the 6th Joint Conference on Lexical and Computational Semantics, *SEM-2017.

2016

• Sujay K. Jauhar, Peter Turney and Eduard Hovy. (2016). Tables as Semistructured Knowledge for Question Answering. In Proceedings of the 54th Annual Meeting of the Association for Computational Linguistics, ACL-2016.

2015

- Sujay K. Jauhar, Raul D. Guerra, Edgar Gonzàlez and Marta Recasens. (2015). Resolving Discourse-Deictic Pronouns: A Two-stage Approach to Do It. In Proceedings of the 4th Joint Conference on Lexical and Computational Semantics, *SEM-2015.
- Sujay K. Jauhar, Chris Dyer and Eduard Hovy. (2015). Ontologically Grounded Multi-sense Representation Learning for Semantic Vector Space Models. In Proceedings of the 2015 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, NAACL-2015.
- Manaal Faruqui, Jesse Dodge, **Sujay K. Jauhar**, Chris Dyer, Eduard Hovy and Noah A. Smith. (2015). Retrofitting Word Vectors to Semantic Lexicons. In Proceedings of the 2015 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, NAACL-2015. **Best Student Paper Award**

2014

- Manaal Faruqui, Jesse Dodge, **Sujay K. Jauhar**, Chris Dyer, Eduard Hovy and Noah A. Smith. (2014). Retrofitting Word Vectors to Semantic Lexicons. In the Deep Learning and Representation Learning Workshop, NIPS-2014.
- Sujay K. Jauhar and Eduard Hovy. (2014). Inducing Latent Semantic Relations for Structured Distributional Semantics. In Proceedings of the 25th International Conference on Computational Linguistics, COLING-2014.

2013

- Sujay K. Jauhar, Yun-Nung Chen and Florian Metze. (2013). Prosody Based Speech Summarization with Two-layer Mutually Reinforced Random Walk. In Proceedings of the 6th International Joint Conference on Natural Language Processing, IJCNLP-2013.
- Kartik Goyal, **Sujay K. Jauhar**¹, Huiying Li, Mrinmaya Sachan, Shashank Srivastava and Eduard Hovy. (2013). A Structured Distributional Semantic Model: Integrating Structure with Semantics. In Proceedings of the Workshop on Continuous Vector Space Models and their Compositionality, ACL-2013.
- Kartik Goyal, **Sujay K. Jauhar**¹, Huiying Li, Mrinmaya Sachan, Shashank Srivastava and Eduard Hovy. (2013). A Structured Distributional Semantic Model for Event Co-reference. In Proceedings of the 51st Annual Meeting of the Association for Computational Linguistics, ACL-2013.
- Dirk Hovy, Shashank Srivastava, **Sujay K. Jauhar**, Mrinmaya Sachan, Kartik Goyal, Huiying Li, Whitney Sanders and Eduard Hovy. (2013) Identifying

¹Equally contributing first author

Metaphorical Word Use with Tree Kernels. In Proceedings of the Meta4NLP Workshop, NAACL-2013.

2012

- A Kumaran, **Sujay K. Jauhar** and Sumit Basu (2012) Doodling: A Gaming Paradigm for Generating Language Data. In Proceedings of the 4th Human Computation Workshop, HComp-2012.
- Sujay K. Jauhar and Lucia Specia. (2012). UOW-SHEF: SimpLex Lexical Simplicity Ranking based on Contextual and Psycholinguistic Features. In Proceedings of the 6th International Workshop on Semantic Evaluation, SemEval-2012.
- Lucia Specia, **Sujay K. Jauhar**, and Rada Mihalcea. (2012). SemEval-2012 Task 1: English Lexical Simplication. In Proceedings of the 6th International Workshop on Semantic Evaluation, SemEval-2012.

Journal Articles

- Sujay K. Jauhar. (2012) A New Task for Lexical Simplification. In BULAG Journal, 37, pp. 43 64.
- Chamanlal Gupta and **Sujay K. Jauhar**. (2005) Application Engineering Data for Solar Energy Utilization: Solar Tables for Water Heating at Pondicherry. In SESI Journal, 15, pp. 13 20.

Others

- Sujay K. Jauhar, Peter Turney and Eduard Hovy. (2016). TabMCQ: A Dataset of General Knowledge Tables and Multiple-choice Questions. arXiv preprint arXiv:1602.03960v1 [cs.CL].
- Sujay K. Jauhar and Lucia Specia. (2012). Re-assessing Lexical Simplification Quality from a Practically Motivated Standpoint. Extended abstract at Language Technolgies Institute Student Research Symposium 2012, Carnegie Mellon University.
- Sujay K. Jauhar and Lucia Specia. (2012). SimpLex V0.1 Scripts for Streamlining Lexical Simplification Learning. Extended abstract at Language Technolgies Institute Student Research Symposium 2012, Carnegie Mellon University.

Patents

• "Game paradigm for language learning and linguistic data generation". Patent US20130084976 A1. Jointly with A. Kumaran & Sumit Basu (Microsoft Research)