

# Sudha Rao

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## CONTACT INFORMATION

Department of Computer Science  
University of Maryland  
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## RESEARCH INTERESTS

Natural Language Processing with a focus on question generation, textual style transfer and information extraction using deep learning methods.

## EDUCATION

**University of Maryland, College Park** Aug 2013 - Dec 2018  
Ph.D. in Computer Science  
Focus: Natural Language Processing  
Thesis: Learning to Ask Clarification Questions  
Advisor: Dr. Hal Daumé III

**University of Maryland, College Park** Aug 2013 - Dec 2015  
Masters in Computer Science (GPA: 3.85/4.00)

**Veer mata Jijabai Technological Institute, Mumbai** Aug 2007 - May 2011  
Bachelor of Technology in Computer Engineering  
(CPI: 9.4/10)

## PUBLICATIONS

**Sudha Rao**, Hal Daumé III, "[Learning to Ask Good Questions: Ranking Clarification Questions using Neural Expected Value of Perfect Information](#)" Proceedings of the Association for Computational Linguistics (**ACL**) 2018. **Best long paper award**

Xing Niu, **Sudha Rao**, Marine Carpuat, "[Multi-task Neural Models for Translating Between Styles Within and Across Languages](#)" To appear in the Proceedings of the Conference on Computational Linguistics (**COLING**) 2018

**Sudha Rao**, Joel Tetreault, "[Dear Sir or Madam, May I introduce the YAFC Corpus: Corpus, Benchmarks and Metrics for Formality Style Transfer](#)" Proceedings of the North American Association for Computational Linguistics (**NAACL**) 2018.

**Sudha Rao**, Hal Daumé III, "[Are you asking the right questions? Teaching Machines to Ask Clarification Questions](#)" Proceedings of Student Research Workshop, Association for Computational Linguistics (**ACL**) 2017 & Proceedings of Workshop on Women & Underrepresented Minorities in NLP (**WiNLP**) 2017

**Sudha Rao**, Daniel Marcu, Kevin Knight and Hal Daumé III, "[Biomedical Event Extraction using Abstract Meaning Representation](#)" Proceedings of Workshop on Biomedical Natural Language Processing, Association for Computational Linguistics (**ACL**) 2017

Allyson Ettinger, **Sudha Rao**, Hal Daumé III, Emily M. Bender, "[Towards Linguistically Generalizable NLP Systems: A Workshop and Shared Task](#)" Proceedings of the First Workshop on Building Linguistically Generalizable NLP systems, Empirical Methods in Natural Language Processing (**EMNLP**) 2017

**Sudha Rao**, Yogarshi Vyas, Hal Daume III, and Philip Resnik, "[Parser for Abstract Meaning Representation using Learning to Search](#)", Proceedings of Workshop on Meaning Representation Parsing, North American Association for Computational Linguistics (**NAACL**) 2016

**Sudha Rao**, Allyson Ettinger, Hal Daumé III, and Philip Resnik, "[Dialogue focus tracking for zero pronoun resolution](#)", Proceedings of North American Association for Computational Linguistics (**NAACL**) 2015

**WORK EXPERIENCE** **Grammarly**, New York June 2017 - August 2017  
*Research Intern (Mentor: Joel Tetreault)*  
Implemented models for style transfer in text.

**Microsoft Research**, Redmond June 2016 - August 2016  
*Research Intern (Mentor: Paul Mineiro)*  
Developed neural network based conversational models

**Information Science Institute (ISI)**, USC June 2016 - August 2016  
*Research Intern (Mentors: Daniel Marcu & Kevin Knight)*  
Event extraction using semantic representation

**NVIDIA** Graphics Pvt. Ltd, Pune July 2011 - April 2013  
*System Software Engineer*  
Designed and implemented a test infrastructure for Tegra Driver on varied mobile operating systems.

**TECHNICAL SKILLS** Programming Language: Python, Java, C++, Matlab  
Deep Learning toolkit: Keras, Lasagne, Pytorch  
NLP toolkits: NLTK, Scikit-learn

**SERVICE** **Organizer**  
EMNLP Workshop: Building Linguistically Generalizable NLP systems, 2017  
Winter Storm 2016 & Language Science Day 2015-16, UMD  
NAACL Tutorial: Hands-on Learning to Search for Structured Prediction, 2015.

**Reviewer**  
NAACL 2018, COLING 2018, ACL-SRW 2018, BEA 2018, Style Variation 2018

**HONOUR & AWARD** Best Long Paper Award, ACL 2018  
Recipient of Language Science Fellowship (an NSF funded fellowship) at UMD.  
Scholarship to attend the Grace Hopper Celebration conference 2014 & 2015.  
Recipient of Dean's Fellowship at University of Maryland, College Park.  
Scholarship to attend the Women in Theory conference 2012 at Princeton.