

Sudha Rao

CONTACT INFORMATION

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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)

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

PUBLICATIONS

Xing Niu, **Sudha Rao**, Marine Carpuat, "*Multi-task Neural Models for Translating Between Styles Within and Across Languages*" In submission

Sudha Rao, Hal Daumé III, "*Learning to Ask Good Questions: Ranking Clarification Questions using Neural Expected Value of Perfect Information*" To appear in the proceedings of the Association for Computational Linguistics (**ACL**) 2018.

Sudha Rao, Joel Tetreault, "*Dear Sir or Madam, May I introduce the YAFC Corpus: Corpus, Benchmarks and Metrics for Formality Style Transfer*" To appear in the 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.

TEACHING EXPERIENCE CMSC 726 - Machine Learning Spring 2016
CMSC 422 - Computer Systems Architecture Fall 2015
CMSC 131 - Object Oriented Programming Fall 2013

TECHNICAL SKILLS Programming Language: Python, Java, C++, Matlab
Deep Learning toolkit: Keras, Lasagne, Pytorch

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 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.