

Yogarshi Vyas

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RESEARCH INTERESTS Multilingual NLP, Semantics, Machine Translation, Deep and Representation Learning

EDUCATION **University of Maryland, College Park, MD USA** **September, 2014 - present**
Degree: Ph.D., Computer Science
Advisor: Marine Carpuat
GPA: 3.97/4.0

University of Maryland, College Park, MD USA **September, 2014 - December, 2016**
Degree: M.S., Computer Science
Advisor: Marine Carpuat
GPA: 3.97/4.0

Indian Institute of Technology, Kharagpur, India **July, 2010 - May, 2014**
Degree: B.Tech. (Hons.), Computer Science and Engineering
Advisor: Niloy Ganguly
GPA: 9.23/10.0

HONORS AND AWARDS

- Dean's Fellowship, University of Maryland, 2014-16
- Inlaks Award for Excellence at the Indian Institutes of Technology (IIT), 2011-14

CONFERENCE PAPERS

- Detecting Asymmetric Semantic Relations in Context : A Case Study on Hypernymy Detection
Yogarshi Vyas, Marine Carpuat
To appear at ***SEM 2017**
- The Amazing Mysteries of the Gutter: Drawing Inferences Between Panels in Comic Book Narratives
Mohit Iyyer, Varun Manjunatha, Anupam Guha, Yogarshi Vyas, Jordan Boyd-Graber, Hal Daumé III, Larry Davis
To appear at **CVPR 2017**
- Sparse Bilingual Word Representations for Cross-lingual Lexical Entailment
Yogarshi Vyas, Marine Carpuat
Proceedings of **NAACL 2016**
- Class-Based N-gram Language Difference Models for Data Selection
Amittai Axelrod, Yogarshi Vyas, Marianna Martindale, Marine Carpuat
Proceedings of **IWSLT 2015**
- POS Tagging of English-Hindi Code-Mixed Social Media Content
Yogarshi Vyas, Spandana Gella, Jatin Sharma, Kalika Bali, Monojit Choudhury
Proceedings of **EMNLP 2014**
- Improving Unsupervised Query Segmentation using Parts-of-Speech Sequence Information
Rishiraj Saha Roy, Yogarshi Vyas, Niloy Ganguly, Monojit Choudhury
Proceedings of **SIGIR 2014**

WORKSHOP AND
SYSTEM PAPERS

- Detecting Cross-Lingual Semantic Divergence for Neural Machine Translation
Marine Carpuat, Yogarshi Vyas, Xing Niu
To appear at the 1st Workshop on Neural Machine Translation (and Generation), ACL 2017
- The UMD Machine Translation Systems at IWSLT 2015
Amittai Axelrod, Ahmed Elgohary, Marianna Martindale, Khanh Nguyen, Xing Niu, Yogarshi Vyas, Marine Carpuat
Proceedings of **IWSLT 2015**
- Word-level Language Identification using CRF: Code-switching Shared Task Report of MSR India System
Gokul Chittaranjan, Yogarshi Vyas, Kalika Bali, Monojit Choudhury
Proceedings of First Workshop on Computational Approaches to Code Switching, **EMNLP 2014**
- "I am borrowing ya mixing?" An Analysis of English-Hindi Code Mixing in Facebook
Kalika Bali, Jatin Sharma, Monojit Choudhury, Yogarshi Vyas
Proceedings of First Workshop on Computational Approaches to Code Switching, **EMNLP 2014**

MANUSCRIPTS

- Detecting Lexical Entailment in Context
Yogarshi Vyas, Marine Carpuat (Under Review)
- Parser for Abstract Meaning Representation using Learning to Search
*Yogarshi Vyas**, *Sudha Rao**, *Hal Daumé III*, *Philip Resnik*
arXiv:1510.07586, 2015 (preprint)

INTERNSHIPS

Microsoft Research, Bangalore, India **May, 2014 - July, 2014**
Advisor : Monojit Choudhury
Topic : Hindi English code-switching/code-mixing in social media

Microsoft Research, Bangalore, India **May, 2013 - July, 2013**
Advisor : Monojit Choudhury
Topic : Unsupervised part-of-speech induction on query logs

SERVICE

Primary Reviewer : EMNLP 2017, ACL2017, COLING 2016, IJCAI 2016
Secondary Reviewer : EMNLP 2016
Departmental Service : CS Graduate Admissions Committee, UMD (2016)

TEACHING
EXPERIENCE

Teaching Assistant **August, 2014 - Spring, 2016**
Graduate courses - Computational Linguistics I (Fall 2015), Computational Linguistics II (Spring 2016)
Undergraduate courses - Discrete Mathematics (Spring 2014), Organization of Programming Languages (Fall 2014)
Duties include conducting discussion sections, holding office hours and grading.

SELECTED
COURSEWORK

University of Maryland, College Park
Computational Linguistics, Multilingual NLP, Advanced Seminar on Semantics in Computational Linguistics, Foundations of Machine Learning, Reinforcement Learning, Convex Optimization, Computational Genomics
Indian Institute of Technology, Kharagpur
Machine Learning, Information Retrieval, Complex Networks

* Indicates equal contribution

SKILLS

Programming Languages

Python, C++/C, MATLAB, Java

Tools/Libraries

Theano, Lasagne, Chainer, Keras

Human Languages

Gujarati (native), English, Hindi (native proficiency), Marathi (fluent), French (beginner)