

Shyam Upadhyay

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Philadelphia, Pennsylvania 19104-6309

Education **Ph.D. in Computer Science** 2017 - present
University of Pennsylvania
ADVISOR: Dan Roth

Ph.D. in Computer Science 2013 - 2017
University of Illinois at Urbana-Champaign
ADVISOR: Dan Roth

B.Tech. in Computer Science and Engineering 2009 - 2013
Indian Institute of Technology, Kanpur, India

Research Natural Language Processing, Machine Learning
Interests

Publications **Annotating Derivations: A New Evaluation Strategy and Dataset for Algebra Word Problems**
Shyam Upadhyay and Ming-Wei Chang
EACL, 2017.

Revisiting the Evaluation for Cross Document Event Coreference
Shyam Upadhyay, Nitish Gupta, Christos Christodoulopoulos, and Dan Roth
COLING, 2016.

Learning from Explicit and Implicit Supervision Jointly For Algebra Word Problems
Shyam Upadhyay, Ming-Wei Chang, Kai-Wei Chang, and Wen-tau Yih.
EMNLP, 2016.

Cross-Lingual Models of Word Embeddings: An Empirical Comparison
Shyam Upadhyay, Manaal Faruqui, Chris Dyer, and Dan Roth.
ACL, 2016.

Cross-Lingual Dataless Classification for Many Languages
Yangqiu Song, Shyam Upadhyay, Haoruo Peng, and Dan Roth.
IJCAI, 2016.

Beyond Bilingual: Multi-Sense Word Embeddings Using Multilingual Context
Shyam Upadhyay, Kai-Wei Chang, Matt Taddy, Adam Kalai, and James Zou.
In Workshop on Repl4NLP, 2017. **Best Paper Award.**

“Making the News”: Identifying Noteworthy Events in News Articles

Shyam Upadhyay, Christos Christodoulopoulos and Dan Roth.

In 4th Workshop on Events at NAACL, 2016.

Structural Learning with Amortized Inference

Kai-Wei Chang and Shyam Upadhyay and Gourab Kundu and Dan Roth.

In AAAI, 2015.

IllinoisSL: A JAVA Library For Structured Prediction

Kai-Wei Chang and Shyam Upadhyay and Ming-Wei Chang and Vivek Srikumar and Dan Roth.

Arxiv Preprint, Vol. abs/1509.07179, 2015.

**Research
Experience**

Software Engineering Intern

May 2017 - August 2017

Google Research, Mountain View

MENTOR: Larry Heck, Gokhan Tur and Dilek Hakkani-Tur

Worked on developing slot filling models for new languages with little training data.

Research Intern

May 2016 - August 2016

Microsoft Research, Cambridge, Massachusetts

MENTOR: Adam Kalai, Matt Taddy

Worked on developing multi-sense word embeddings using multilingual context.

Research Intern

May 2015 - August 2015

Microsoft Research, Redmond, Washington

MENTOR: Ming-Wei Chang

Worked on solving algebra word problems using implicit supervision.

Research Assistant

2013 - present

Cognitive Computation Group, Illinois

HEAD: Dan Roth

Undergraduate Research Intern

May 2012 - July 2012

Microsoft Research, Redmond, Washington

MENTORS: Bongshin Lee, Geoffrey Zweig, Sumit Gulwani