

Shyam Upadhyay

shyamupa@gmail.com, shyamupa@seas.upenn.edu
217-778-8879
<http://shyamupa.com>

456C, 3401 Walnut Street
Philadelphia
Pennsylvania 19104-6309

Education **Ph.D. in Computer Science** 2013 - present
University of Pennsylvania (2017 - present)
University of Illinois at Urbana-Champaign (2013 - 2017)

TITLE: Exploiting Cross-lingual Representations in Natural Language Processing
ADVISOR: Dan Roth

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

Research Interests Natural Language Processing, Machine Learning

Conference Publications

- Bootstrapping Transliteration with Constrained Discovery for Low-Resource Languages**
Shyam Upadhyay, Jordan Kodner, and Dan Roth
EMNLP, 2018 [link](#).
- Joint Multilingual Supervision for Cross-Lingual Entity Linking**
Shyam Upadhyay, Nitish Gupta, and Dan Roth
EMNLP, 2018 [link](#).
- Robust Cross-Lingual Hypernymy Detection Using Dependency Context**
Shyam Upadhyay*, Yogarshi Vyas*, Marine Carpuat, and Dan Roth
NAACL, 2018 [link](#) (acceptance rate 32%).
- Looking Beyond the Surface: A Challenge Set For Reading Comprehension over Multiple Sentences**
Daniel Khashabi, Snigdha Chaturvedi, Michael Roth, Shyam Upadhyay, and Dan Roth
NAACL, 2018 [link](#) (acceptance rate 32%).
- (Almost) Zero-Shot Cross-Lingual Spoken Language Understanding**
Shyam Upadhyay, Manaal Faruqui, Gokhan Tür, Dilek Hakkani-Tür, and Larry Heck
ICASSP, 2018 [link](#).
- Annotating Derivations: A New Evaluation Strategy and Dataset for Algebra Word Problems**
Shyam Upadhyay and Ming-Wei Chang
EACL, 2017 [link](#) (acceptance rate 27%).
- Revisiting the Evaluation for Cross Document Event Coreference**
Shyam Upadhyay, Nitish Gupta, Christos Christodoulopoulos, and Dan Roth
COLING, 2016 [link](#) (acceptance rate 32%).
- 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 [link](#) (acceptance rate 26%).

9. **Cross-Lingual Models of Word Embeddings: An Empirical Comparison**
Shyam Upadhyay, Manaal Faruqui, Chris Dyer, and Dan Roth.
ACL, 2016 [link](#) (acceptance rate 28%).
10. **Cross-Lingual Dataless Classification for Many Languages**
Yangqiu Song, Shyam Upadhyay, Haoruo Peng, and Dan Roth.
IJCAI, 2016 [link](#) (acceptance rate 24%).
11. **Structural Learning with Amortized Inference**
Kai-Wei Chang, Shyam Upadhyay, Gourab Kundu, and Dan Roth.
In AACL, 2015 [link](#) (acceptance rate 27%).

Workshop Publications

1. **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**) [link](#).
2. **“Making the News”: Identifying Noteworthy Events in News Articles**
Shyam Upadhyay, Christos Christodoulopoulos and Dan Roth.
In 4th Workshop on Events at NAACL, 2016 [link](#).

Software

1. **IllinoisSL: A JAVA Library For Structured Prediction**
Kai-Wei Chang, Shyam Upadhyay, Ming-Wei Chang, Vivek Srikumar, and Dan Roth.
Arxiv Preprint, Vol. abs/1509.07179, 2015 [link](#).
2. **CogcompNLP: Your Swiss Army Knife for NLP**
Daniel Khashabi, Christos Christodoulopoulos, Shyam Upadhyay, et al.
In LREC, 2018 [link](#).

Visit my [github profile](#) for other software contributions.

Research Internships

- | | |
|---|------------------------|
| Google Research, Mountain View, California | May 2017 - August 2017 |
| MENTORS: Larry Heck, Gokhan Tür and Dilek Hakkani-Tür | |
| Worked on developing slot filling models for new languages with little training data. | |
| Microsoft Research, Cambridge, Massachusetts | May 2016 - August 2016 |
| MENTORS: Adam Kalai, Matt Taddy | |
| Worked on developing multi-sense word embeddings using multilingual context. | |
| Microsoft Research, Redmond, Washington | May 2015 - August 2015 |
| MENTOR: Ming-Wei Chang | |
| Worked on solving algebra word problems using implicit supervision. | |
| Microsoft Research, Redmond, Washington | May 2012 - July 2012 |
| MENTORS: Bongshin Lee, Geoffrey Zweig, Sumit Gulwani | |

Awards

Best Paper Award at Repl4NLP Workshop 2017.
One of the **Top Reviewers** at ACL 2018.

Professional Service

Reviewer for AACL 2016, IJCAI 2016, ACL 2017, *SEM 2017, EMNLP 2017, NAACL SRW 2018, NAACL 2018, ACL 2018 (one of the **Top Reviewers**), Gen-Deep Workshop 2018, EMNLP 2018, ACM Transactions on Information Systems