

Swabha Swayamdipta

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June 17, 2019

Positions

Allen Institute of Artificial Intelligence
Young Investigator

Seattle, WA, USA
Starting in Aug 2019

Education

Carnegie Mellon University
PhD in Language and Information Technologies, School of Computer Science
– Advised by Noah A. Smith and Chris Dyer
– Visiting student at University of Washington from Summer 2015-9

Pittsburgh, PA, USA
May 2019

Carnegie Mellon University
Masters in Language and Information Technologies, School of Computer Science
– Advised by Noah A. Smith and Chris Dyer

Pittsburgh, PA, USA
2017

Columbia University
Masters in Computer Science (specialization in Natural Language Processing)
– Advised by Owen Rambow and Michael Collins

City of New York, NY, USA
2013

National Institute of Technology
BTech in Computer Science and Engineering

Calicut, Kerala, India
2006 - 2010

Selected Papers

Peer-reviewed Publications (Long)

Syntactic Scaffolds for Semantic Structures. EMNLP 2018
S. Swayamdipta, S. Thomson, K. Lee, L. Zettlemoyer, C. Dyer, N. A. Smith.

Learning Joint Semantic Parsers from Disjoint Data. NAACL 2018
H. Peng, S. Thomson, S. Swayamdipta, N. A. Smith

Multi-Mention Learning for Reading Comprehension with Neural Cascades. ICLR 2018
S. Swayamdipta, A. Parikh, T. Kwiatkowski

Multi-Task Learning for Incremental Parsing using Stack LSTMs WiML/NeurIPS 2016
S. Swayamdipta, M. Ballesteros, C. Dyer, N. A. Smith

Greedy, Joint Syntactic and Semantic Parsing with Stack LSTMs CoNLL 2016
S. Swayamdipta, M. Ballesteros, C. Dyer, N. A. Smith

A Dependency Parser for Tweets EMNLP 2014
L. Kong, N. Schneider, S. Swayamdipta, A. Bhatia, C. Dyer, N. A. Smith

CMU: Arc-Factored, Discriminative Semantic Dependency Parsing SemEval 2014
*S. Thomson, D. Bamman, J. Dodge,
S. Swayamdipta, N. Schneider, C. Dyer, N. A. Smith*

The CMU Machine Translation Systems

WMT 2014

*A. Matthews, C. Dyer, A. Lavie, G. Hanneman, W. Ammar, A. Bhatia,
S. Swayamdipta, E. Schlinger, Y. Tsvetkov*

The Pursuit of Power and its Manifestation in Written Dialog

ICSC 2012

S. Swayamdipta, O. Rambow

Peer-reviewed Publications (Short)

Polyglot Semantic Role Labeling.

ACL 2018

P. Mulcaire, S. Swayamdipta, N. A. Smith

Annotation Artifacts in Natural Language Inference Data.

NAACL 2018

S. Gururangan, S.Swayamdipta*, O.Levy, R.Schwartz, S.R.Bowman, N.A.Smith*

**Equal Contribution*

Working Papers

Frame-Semantic Parsing with Softmax-Margin Segmental RNNs and a Syntactic Scaffold.

arXiv:1706.09528

S. Swayamdipta, S. Thomson, C. Dyer and N. A. Smith.

DyNet: The Dynamic Neural Network Toolkit

arXiv:1701.03980

*G. Neubig, C. Dyer, Y. Goldberg, A. Matthews, W. Ammar,
A. Anastasopoulos, M. Ballesteros, D. Chiang, D. Clothiaux,
T. Cohn, K. Duh, M. Faruqui, C. Gan, D. Garrette, Y. Ji,
L. Kong, A. Kuncoro, G. Kumar, C. Malaviya, P. Michel,
Y. Oda, M. Richardson, N. Saphra, S. Swayamdipta, P. Yin*

Research Experience

Allen Institute of Artificial Intelligence

Seattle, WA, USA

Research Intern

Summer-Fall 2018

- Structured Prediction with Language Models
- Host: Matt Peters

Google Inc.

New York, NY, USA

Research Intern

Summer 2017

- Machine Comprehension for Google Neon
- Host: Ankur Parikh

Teaching Experience

- Tutorial on Transfer Learning in NLP at NAACL 2019.
- Tutorial on Multilingual FrameNet at COLING 2018.
- Guest lecture on Minimum Bayes Risk decoding in CSE 599 D1: Advanced Topics in NLP, Spring 2018, UW
- Guest lecture on Dependency Parsing for CSEP 517: NLP, Spring 2018, UW

- Guest lecture on Unsupervised Learning for CSE 446 ML, Fall 2017, UW
- Teaching assistant, Undergrad NLP (11-411), Spring 2015, CMU
- Guest lecturer, Algorithms for NLP (11-711), Fall 2014, CMU

Industry Experience

Google Inc.

Software Development Intern

Mountain View, CA, USA
Summer 2012

- Information retrieval evaluation for Google TV search

Oracle Server Technologies

Member Technical Staff

Bangalore, India
2010 - 2011

- Unified messaging for Fusion Middleware

Microsoft Corporation

Software Development Intern

Hyderabad, India
Summer 2009

- Search functionality for customer hierarchies

Invited Talks

AI2 Seminar

Learning Challenges in Natural Language Processing

Allen Institute of Artificial Intelligence
Apr 8 2019

Stanford NLP Seminar

Learning Challenges in Natural Language Processing

Stanford University
Apr 4 2019

JHUCLSP Seminar

Learning Challenges in Natural Language Processing

Johns Hopkins University, Baltimore
Mar 13 2019

CILVR Seminar

Learning Challenges in Natural Language Processing

New York University, New York
Mar 11 2019

MSR Seminar

Learning Challenges in Natural Language Processing

Microsoft Research, Redmond
Jan 22 2019

NorthWest NLP

Syntactic Scaffolds for Semantic Structures

Microsoft Research, Redmond
Apr 27 2018

Professional Service

Organizer of the Workshop on Deep Learning in Low Resource NLP to be held at EMNLP 2019.

Reviewer for ACL and NAACL 2015-9, EMNLP 2015-8; NAACL SRW 2016; NeurIPS 2018-9; ICML, 2015,2019; WiML at NeurIPS 2016; EACL 2017; MRQA Workshop 2017, AACL 2017-9, CoNLL 2017-8.

Organizer of upcoming DeepLo Workshop at EMNLP 2019.

Gradswomen Events Organizer at Paul G. Allen School of Computer Science Engineering University of Washington, 2017-19.

Faculty Recruiting Liaison at Paul G. Allen School of Computer Science Engineering University of Washington, 2019.

Organizer of West Coast NLP Workshop 2018 by Facebook.

Outreach event at Highline High School, Tacoma, WA, 2017

Organizer of Women's Research Day at University of Washington, 2017.

References

Noah A. Smith

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Chris Dyer

cdyer@google.com

Luke Zettlemoyer

lsz@cs.washington.edu