

Swabha Swayamdipta

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Positions

Allen Institute for AI
Young Investigator

Seattle, WA, USA
Aug 2019-Present

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

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)

- Adversarial Filters of Dataset Biases** ICML 2020
R. LeBras, S. Swayamdipta, C. Bhagavatula, R. Zellers, M. E. Peters, A. Sabharwal, and Y. Choi
- The Right Tool for the Job: Matching Model and Instance Complexities** ACL 2020
R. Schwartz, G. Stanovsky, S. Swayamdipta, J. Dodge, and N. A. Smith
- Dont Stop Pretraining: Adapt Language Models to Domains and Tasks** ACL 2020
S. Gururangan, A. Marasović, S. Swayamdipta, K. Lo, I. Beltagy, D. Downey, and N. A. Smith
- 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 <i>S. Thomson, D. Bamman, J. Dodge, S. Swayamdipta, N. Schneider, C. Dyer, N. A. Smith</i>	SemEval 2014
The CMU Machine Translation Systems <i>A. Matthews, C. Dyer, A. Lavie, G. Hanneman, W. Ammar, A. Bhatia, S. Swayamdipta, E. Schlinger, Y. Tsvetkov</i>	WMT 2014
The Pursuit of Power and its Manifestation in Written Dialog <i>S. Swayamdipta, O. Rambow</i>	ICSC 2012

Peer-reviewed Publications (Short)

Polyglot Semantic Role Labeling. <i>P. Mulcaire, S. Swayamdipta, N. A. Smith</i>	ACL 2018
Annotation Artifacts in Natural Language Inference Data. <i>S. Gururangan*, S.Swayamdipta*, O.Levy, R.Schwartz, S.R.Bowman, N.A.Smith</i> <i>*Equal Contribution</i>	NAACL 2018

Working Papers

G-DAUG: Generative Data Augmentation for Commonsense Reasoning <i>Y. Yang, C. Malaviya, J. Fernandez, S. Swayamdipta, R. LeBras, J. Wang, C. Bhagavatula, Y. Choi, and D. Downey</i>	arXiv:2004.11546
Shallow Syntax in Deep Water. <i>S. Swayamdipta, M. Peters, B. Roof, C. Dyer and N. A. Smith.</i>	arXiv:1908.11047
Frame-Semantic Parsing with Softmax-Margin Segmental RNNs and a Syntactic Scaffold. <i>S. Swayamdipta, S. Thomson, C. Dyer and N. A. Smith.</i>	arXiv:1706.09528
DyNet: The Dynamic Neural Network Toolkit <i>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</i>	arXiv:1701.03980

Research Experience

Allen Institute of Artificial Intelligence <i>Research Intern</i> – Shallow Syntactic Priming of Large-scale Language Models – Host: Matthew E. Peters	Seattle, WA, USA Summer-Fall 2018
Google Inc. <i>Research Intern</i> – Machine Comprehension for Google Neon – Host: Ankur Parikh	New York, NY, USA Summer 2017

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

- Information retrieval evaluation for Google TV search

Mountain View, CA, USA
Summer 2012

Oracle Server Technologies

Member Technical Staff

- Unified messaging for Fusion Middleware

Bangalore, India
2010 - 2011

Microsoft Corporation

Software Development Intern

- Search functionality for customer hierarchies

Hyderabad, India
Summer 2009

Invited Talks

Rising Stars in EECS

Learning Challenges in Natural Language Processing

University of Illinois-Urbana Champaign
Oct 30 2019

Colloquium, Department of Linguistics

Sprucing up a Dataset: Adversarially Filtering Dataset Artifacts

University of Washington
Oct 18 2019

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

Area Chair for Semantics: Long at ACL 2020.

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

Reviewer for ACL and NAACL 2015-2020, EMNLP 2015-2020; NAACL SRW 2016; NeurIPS 2018-2020; ICML, 2015,2019,2020; WiML at NeurIPS 2016; EACL 2017; MRQA Workshop 2017, AAI 2017-9, CoNLL 2017-8.

Organizer of the 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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Yejin Choi

yejin@cs.washington.edu

Chris Dyer

cdyer@google.com

Luke Zettlemoyer

lsz@cs.washington.edu