Swabha Swayamdipta

GABILAN ASSISTANT PROFESSOR OF COMPUTER SCIENCE, UNIVERSITY OF SOUTHERN CALIFORNIA

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Research Interests

NATURAL LANGUAGE PROCESSING AND MACHINE LEARNING

- Generative Evaluation: Evaluation of generated language via distributional effects or along specific axes
- Data Interpretability: Estimating the usefulness of data sources for model training and evaluation
- Model (Mechanistic) Interpretability: Understanding predictive behavior and properties of models that uniquely identify them
- Language Generation: Improved theory behind inference and algorithms for inference with and without linguistic constraints
- Language and Society: Language technologies to study societal biases in humans and models

Professional Experience

University of Southern California *Los Angeles, CA, USA*

GABILAN ASSISTANT PROFESSOR OF COMPUTER SCIENCE *Aug 2022 - PRESENT*

- Associate Director of the Center for AI and Society, since Fall 2023

Allen Institute for AI *Seattle, WA, USA*

POSTDOCTORAL INVESTIGATOR *Aug 2019 - June 2022*

- **Advisor**: Yejin Choi
- **Project Team**: MOSAIC

Oracle Server Technologies *Bangalore, India*

MEMBER TECHNICAL STAFF *2010 - 2011*

- **Project:** Unified messaging for Fusion Middleware

Education

Carnegie Mellon University *Pittsburgh, PA, USA*

PHD IN LANGUAGE AND INFORMATION TECHNOLOGIES *2013 - 2019*

- **Advisors:** Noah A. Smith, Chris Dyer
- **University of Washington**, Seattle, WA — *Visiting PhD student Fall 2015 - Summer 2019*
- **Thesis:** Syntactic Inductive Biases in NLP

Columbia University *City of New York, NY, USA*

MASTERS IN COMPUTER SCIENCE *2011 - 2012*

- **Advisors:** Owen Rambow, Michael Collins
- **Specialization:** Natural Language Processing

National Institute of Technology *Calicut, Kerala, India*

BACHELORS OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING *2006 - 2010*

Awards and Honors

2023	**Rising Stars Award**, Intel	
2022	**Young Investigators Award**, Allen Institute for AI	
2022	**Gabilan Assistant Professor Fellowship**, Women in Science and Engineering	*USC*
2022	**Outstanding Paper Award**, Understanding Dataset Difficulty with V-Usable Information	*ICML*
2021	**Outstanding Paper Award**, MAUVE: Measuring the Gap Between Neural Text and Human Text using Divergence Frontiers	*NeurIPS*
2020	**Best Paper: Honorable Mention**, Don't Stop Pretraining: Adapt Language Models to Domains and Tasks	*ACL*
2014	**Best Student Presentation**, Diversity in Dependency Parsing	*CMU LTI Student Research Symposium*
2009	**Sun Campus Ambassador Scholarship**, Bangalore, India	*Sun Microsystems*
2003	**National Talent Search Scholarship**, Rourkela, India	*NCERT, India*

Mentorship

Spring 2024-Present	**Brihi Joshi**, PhD, USC	
Fall 2023-Present	**Matthew Finlayson**, PhD, USC	
Fall 2022-Present	**Sayan Ghosh**, PhD, USC	
Fall 2023-Present	**Jaspreet Ranjit**, PhD, USC	
Spring 2024-Present	**Shauryasikt Jena**, Masters, USC	
Spring 2024-Present	**Xingjian Dong**, Masters, USC	
Spring 2023-Present	**Xinyue Cui**, Masters, USC	
Summer 2023-Present	**Yoonsoo Nam**, Masters, USC	
Summer 2023	**Ruyuan Zuo**, Masters, USC	*Now at Google*
Spring 2022	**Hanjie Chen / Junlin Wang / Abdallah Bashir**, PhD, UVA / Masters, UCI / Masters, Saarland Universit	*AI2 Intern*
Fall 2021	**Jillian Fisher / Liwei Jiang**, PhD, UW	
Summer 2021	**Kawin Ethayarajh**, PhD, Stanford University	*AI2 Intern*
Summer 2021	**Sarah Wiegreffe**, PhD, George Institute of Technology	*AI2 Intern*
Summer 2021	**Ximing Liu**, BS, UW CSE	*AI2 Intern*
Fall 2020-2023	**Alisa Liu**, PhD, UW CSE	
Fall 2020	**Alon Jacovi**, PhD, Bar Ilan University	*AI2 Intern*
Summer 2020-1	**Jenny Liang**, BS, UW CSE	*AI2 Intern*
Summer 2020	**Jize Cao**, BS, UW CSE	*AI2 Intern*
Spring 2020-2023	**Xuhui Zhou**, CLMS, UW Linguistics	
Fall 2019 - Spring 2020	**Yiben Yang**, PhD, Northwestern University	
Fall 2019 - Spring 2020	**Chaitanya Malaviya**, PYI, Allen Institute for AI	
2018 - 2019	**Ron Fan / Karishma Mandyam**, MS, UW CSE / BS, UW CSE	

Teaching

CLASSES

Spring 2024	**CSCI 499: Language Models in NLP**, Students: 28	*USC*
Fall 2023	**CSCI 499: Language Models in NLP**, Students: 30	*USC*
Fall 2022	**CSCI 699: Data-Centric NLP**, Students: 29	*USC*

TUTORIALS

2019	**Transfer Learning in Natural Language Processing**, Attendees: 350+	*NAACL*
2018	**Frame Semantics across Languages: Towards a Multilingual FrameNet**, Attendees: 30+	*CoLING*

GUEST LECTURES

Spring 2024	**Data-Centric NLP**, Host: Xuezhe Ma	*USC CSCI 544: Advanced NLP*
Summer 2023	**Introduction to NLP**, Host: Darin Gray	*Introduction to Engineering for USC Viterbi K-12 Discover Engineering*
Spring 2023	**Contextualizing Bias**, Host: Maja Matarić	*USC CSCI 697: Seminar in CS Research*
Spring 2022	**What's in a dataset?**, Host: Cyrus Shahabi	*USC CSCI 697: Seminar in CS Research*
Spring 2022	**Data-Centric NLP**, Host: Dongyeop Kang	*UMinn. CSCI 8980: Intro / NLP Research*
Spring 2022	**Annotating Ambiguous NLI**, Host: Dirk Hovy	*MilaNLP: Coding Aperitivo*
Spring 2021	**Transfer Learning**, Host: Zaid Harachoui	*UW DATA 598: Statistical Deep Learning*
Fall 2020	**Biases and Interpretability in NLP**, Host: Eunsol Choi	*UT-Austin CS 395T: Topics in NLP*
Winter 2019	**Phrase-Structure Parsing**, Host: Noah A. Smith	*UW CSE 447/547M: NLP*
Spring 2018	**Minimum Bayes Risk Decoding**, Host: Waleed Ammar	*UW CSE 599 D1: Advanced Topics in NLP*
Spring 2018	**Dependency Parsing**, Host: Noah A. Smith	*UW CSEP 517: NLP*
Fall 2017	**Unsupervised Learning**, Host: Noah A. Smith	*UW CSE 446: Machine Learning*
Fall 2014	**Dependency Parsing with Chu-Liu-Edmonds**, Hosts: Chris Dyer, Alon Lavie, Bob Frederking	*CMU 11-271: Algorithms for NLP*

TEACHING ASSITANTSHIP

| Spring 2015 | **CMU 11-411/611: Natural Language Processing**, Instructors: Chris Dyer, Alan W Black, Shomir Wilson | *Head TA* |

Invited Talks

Feb 13, 2024	**LLM Inference for Scaling Data Creation**, Intel Rising Stars Talk	*Intel Labs*
Feb 8, 2024	**Understanding LLMs via their Generative Successes and Shortcomings**, LTL Seminar	*University of Cambridge*
Dec 15, 2023	**Understanding LLMs via their Generative Successes and Shortcomings**, Keynote	*ATTRIB Workshop @ NeurIPS 2023*
Nov 16, 2023	**Understanding Online Discourse through Social Context and Structured Pragmatics**, UCLA Communications Symposium	*UCLA*
Oct 3, 2023	**Understanding Data with $\mathcal{V}$-Information**, Keynote	*Towards the Next Generation of Computer Vision Datasets Workshop @ ICCV 2023*
Sep 22, 2023	**The Role of Language Models in Natural Language Processing**, Los Angeles County of Education Computer Science Speaker Series	*Los Angeles*
Aug 24, 2023	**Understanding Datasets and Explanations through $\mathcal{V}$-Information**, Alumni Keynote: CMU LTI Student Research Symposium	*CMU, Pittsburgh*
Jul 13, 2023	**Contextualizing Representations in Varied Annotator Perspectives**, Rep4NLP Workshop	*ACL Toronto*
Jun 14, 2023	**Contextualizing Data in Varied Annotator Perspectives**, Responsible Machine Learning	*Google Brain*
Mar 14, 2023	**Understanding Dataset Difficulty with V-Usable Information**, Cohere for AI Reading Group	*Cohere for AI*
Feb 28, 2023	**Designing Controls and Filters for Dataset Generation**, Spotify Research Seminar	*Spotify Research Labs*
Feb 03, 2023	**What's in a Dataset? Interpreting datasets to enable better data creation**, Amazon Data-Centric AI Seminar	*Amazon*
Feb 01, 2023	**Contextualizing Bias in Hate Speech Detection**, CAIS++ Seminar	*USC*
Nov 18, 2022	**Generating Datasets for Robust Generalization**, SoCal NLP Symposium	*UC Santa Barbara*
Nov 09, 2022	**Contextualizing Bias in Hate Speech Detection through Annotator Perspectives**, Center for AI in Society (CAIS) Seminar	*USC*
May 23, 2022	**The Devil's in the Data: Mapping and Generating Datasets for Robust Generalization**, ACL Spotlight Talks for Young Rising Stars	*Dublin, Ireland*
May 13, 2022	**Mapping and Generating Datasets for Robust Generalization**, CS Seminar	*UC Irvine*
Mar 16, 2022	**Rethinking Dataset Construction: : The Role of Generative Modeling and Annotator Perspectives**, IFDS Ethics Seminar	*UC Santa Cruz*
Oct 20, 2021	**What's in your Data? Mapping Datasets and Exploring Data Usability**, Machine Learning Research Group Talks	*Oracle*
Feb 24, 2020	**Addressing Biases for Robust, Generalizable AI**, NERT Seminar	*Georgetown University*
Feb 12, 2020	**Addressing Biases for Robust, Generalizable AI**, NLP Seminar	*Georgia Tech*
Nov 02, 2020	**Responsible AI: Addressing Biases in Datasets and Models**, E+D Product Leads	*Microsoft*
Oct 30, 2019	**Biases and Learning Challenges in Natural Language Processing**, Rising Stars in EECS	*UIUC*
Oct 18, 2019	**Sprucing up a Dataset: Adversarially Filtering Dataset Artifacts**, Linguistics Colloquium	*UW Linguistics*
Apr 08, 2019	**Learning Challenges in Natural Language Processing**, AI2 Seminar	*Allen Institute for AI*
Apr 04, 2019	**Learning Challenges in Natural Language Processing**, NLP Seminar	*Stanford University*
Mar 13, 2019	**Learning Challenges in Natural Language Processing**, CLSP Seminar	*Johns Hopkins University*
Mar 11, 2019	**Learning Challenges in Natural Language Processing**, CILVR Seminar	*New York University*
Jan 22, 2019	**Learning Challenges in Natural Language Processing**, MSR Seminar	*Microsoft Research, New York*
Sep 15, 2018	**Representation Learning with Linguistic Structure**, MSR AI Breakthroughs Workshop	*Microsoft Research, Redmond*
Apr 27, 2018	**Syntactic Scaffolds for Semantic Structures**, NorthWest NLP	*Microsoft Research, Redmond*

Invited Panels

Jul 13, 2023	**Limitations of Large Language Models**, Rep4NLP Workshop	*ACL Toronto*
Jun 29, 2023	**Generative AI and Education**, Roundtable	*ASEE 2023*
Apr 5, 2023	**AImaginings**, Polymathic Pizza	*USC Sidney Harmon Academy for Polymathic Studies*
Jul 14, 2022	**Adversarial Data Augmentations**, DADC Workshop	*NAACL Seattle*
Jun 17, 2022	**Role of LLMs**, Responsible AI Symposium	*AILA*

Publications

CONFERENCE PAPERS

Closing the Curious Case of Neural Text Degeneration *ICLR (To Appear) 2024*
- M. Finlayson, J. Hewitt, A. Koller, **S. Swayamdipta**, A. Sabharwal

Does Video Summarization Require Videos? Quantifying the Effectiveness of Language in Video Summarization *ICASSP (To Appear) 2023*
- Y. Nam, A. Lehavi, D. Yang, D. Bose, **S. Swayamdipta**, and S. Narayanan

We're Afraid Language Models Aren't Modeling Ambiguity *EMNLP 2023*
- A. Liu, Z. Wu, J. Michael, A. Suhr, P. West, A. Koller, **S. Swayamdipta**, N. A. Smith, and Y. Choi

MAUVE Scores for Generative Models: Theory and Practice *JMLR 2023*
- K. Pillutla, L. Liu, J. Thickstun, S. Welleck, **S. Swayamdipta**, R. Zellers, S. Oh, Y. Choi, and Z. Harchaoui

I2D2: Inductive Knowledge Distillation with NeuroLogic and Self-Imitation *ACL 2023*
- C. Bhagavatula, J. D. Hwang, D. Downey, R. Le Bras, X. Lu, K. Sakaguchi, **S. Swayamdipta**, P. West, and Y. Choi

REV: Information-Theoretic Evaluation of Free-Text Rationales *ACL 2023*
- H. Chen, F. Brahman, X. Ren, Y. Ji, Y. Choi, and **S. Swayamdipta**

COBRA Frames: Contextual Reasoning about Effects and Harms of Offensive Statements *ACL-Findings 2023*
- X. Zhou, H. Zhu, A. Yerukola, T. Davidson, J. D. Hwang, **S. Swayamdipta**, and M. Sap

Investigating the Benefits of Free-Form Rationales *EMNLP-Findings 2022*
J. Sun, **S. Swayamdipta**, J. May, and X. Ma

NeuroCounterfactuals: Beyond Minimal-Edit Counterfactuals for Richer Data Augmentation *EMNLP-Findings 2022*
P. Howard, G. Singer, V. Lal, Y. Choi, and **S. Swayamdipta**

WaNLI: Worker and AI Collaboration for Natural Language Inference Dataset Creation *EMNLP-Findings 2022*
A. Liu, **S. Swayamdipta**, N. A. Smith, and Y. Choi

Reframing Human-AI Collaboration for Generating Free-Text Explanations *NAACL 2022*
S. Wiegreffe, J. Hessel, **S. Swayamdipta**, M. Riedl, and Y. Choi

Annotators with Attitudes: How Annotator Beliefs And Identities Bias Toxic Language Detection *NAACL 2022*
M. Sap, **S. Swayamdipta**, L. Vianna, X. Zhou, Y. Choi, and N. A. Smith

Understanding Dataset Difficulty with V-Usable Information *ICML 2022*
- K. Ethayarajh, Y. Choi, and **S. Swayamdipta**
- **Outstanding Paper Award**

MAUVE: Measuring the Gap Between Neural Text and Human Text using Divergence Frontiers *NeurIPS 2021*
- K. Pillutla, **S. Swayamdipta**, R. Zellers, J. Thickstun, S. Wellecks, Y. Choi, and Z. Harchaoui
- **Outstanding Paper Award**

Contrastive Explanations for Model Interpretability *EMNLP 2021*
A. Jacovi, **S. Swayamdipta**, S. Ravfogel, Y. Elazar, Y. Choi, and Y. Goldberg

On-the-Fly Controlled Text Generation with Experts and Anti-Experts *ACL 2021*
A. Liu, M. Sap, X. Lu, **S. Swayamdipta**, C. Bhagavatula, N. A. Smith, and Y. Choi

Challenges in Automated Debiasing for Toxic Language Detection *EACL 2021*
- X. Zhou, M. Sap, **S. Swayamdipta**, N. A. Smith, and Y. Choi

Dataset Cartography: Mapping and Diagnosing Datasets with Training Dynamics *EMNLP 2020*
- **S. Swayamdipta**, R. Schwartz, N. Lourie, Y. Wang, H. Hajishirzi, N. A. Smith, Y. Choi

Generative Data Augmentation for Commonsense Reasoning *EMNLP-Findings 2020*
- Y. Yang, C. Malaviya, J. Fernandez, **S. Swayamdipta**, R. LeBras, J. Wang, C. Bhagavatula, Y. Choi, and D. Downey

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

Don't 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
- **Best Paper Honorable Mention**

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

Annotation Artifacts in Natural Language Inference Data *NAACL 2018*
- S. Gururangan*, **S. Swayamdipta***, O. Levy, R. Schwartz, S. Bowman, and N. A. Smith
- * equal contribution

Polyglot Semantic Role Labeling *ACL 2018*
- P. Mulcaire, **S. Swayamdipta**, and N. A. Smith

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

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

The Pursuit of Power and its Manifestation in Written Dialog *ICSC 2012*
- **S. Swayamdipta**, O. Rambow

Workshop Papers

Sister Help: Data Augmentation for Frame-Semantic Role Labeling *LAW-DMR @ EMNLP 2021*
- A. Pancholy, **S. Swayamdipta**, M. R. L. Petruck

Multi-Task Learning for Incremental Parsing using Stack LSTMs *WiML @ NeurIPS 2016*
- **S. Swayamdipta**, M. Ballesteros, 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

Working Papers

Entropy-Constrained Non-Negative Kernel Regression for Sentence-Level Anomaly Detection *Under Submission*
- A. Gulati, X. Dong, C. Hurtado, S. Shekkizhar, **S. Swayamdipta**, A. Ortega

OATH-Frames: Characterizing Online Attitudes towards Homelessness via LLM Assistants *Under Submission*
- J. Ranjit, B. Joshi, R. Dorn, L. Petry, O. Koumoundouros, J. Bottarini, P. Liu, E. Rice, and **S. Swayamdipta**

Annotating FrameNet via Structure-Conditioned Language Generation *Under Submission*
- X. Cui, and **S. Swayamdipta**

NeuroComparatives: Neuro-Symbolic Distillation of Comparative Knowledge *arXiv:2305.04978*
- P. Howard, J. Wang, V. Lal, G. Singer, Y. Choi, and **S. Swayamdipta**

Shallow Syntax in Deep Water   *arXiv:1908.11047*
- **S. Swayamdipta**, M. Peters, B. Roof, C. Dyer and N. A. Smith

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

TUTORIAL AND ORGANIZATION PAPERS

Proceedings of the 3rd Workshop on Deep Learning Approaches for Low-Resource NLP   *NAACL 2022*
(DeepLo 2022)
- C. Cherry, A. Fan, G. Foster, G. Haffari, S. Khadivi, N. Peng, X. Ren, E. Shareghi, **S. Swayamdipta**

Transfer Learning in Natural Language Processing   *NAACL 2019*
- S. Ruder, M. E. Peters, **S. Swayamdipta**, T. Wolf

Proceedings of the 2nd Workshop on Deep Learning Approaches for Low-Resource NLP   *EMNLP 2019*
(DeepLo 2019)
- C. Cherry, G. Durrett, G. Foster, R. Haffari, S. Khadivi, N. Peng, X. Ren, **S. Swayamdipta**

Frame Semantics across Languages: Towards a Multilingual FrameNet   *CoLING 2018*
- C. F. Baker, M. Ellsworth, M. R. L. Petruck, **S. Swayamdipta**

Professional Service

EXTERNAL SERVICE

Senior Area Chair
- ACL 2024: Sentence-level Semantics

Area Chair
- COLM 2024 (Upcoming)
- ICLR 2024
- EMNLP 2023: Machine Learning for NLP
- ACL 2023: Interpretability
- EMNLP 2022: Language Models
- EMNLP 2021: Machine Learning for NLP
- NAACL 2021: Sentence-Level Semantics
- EACL 2021: Sentence-Level Semantics
- ACL 2020: Semantics (Long)

Reviewer: Conferences
- ACL (ARR)   2015-2022
- NAACL   2015-2022
- EMNLP   2015-2022
- NeurIPS   2018-2022
- ICML   2015, 2019, 2020, 2023
- EACL   2017
- AAAI   2017-2020
- CoNLL   2017-2018, 2020

Reviewer: Workshops
- NAACL Student Research Workshop   2016
- Workshop for Women in Machine Learning (WiML) at NeurIPS   2016
- Machine Reading for Question Answering (MRQA) Workshop   2017

Reviewer: Journals
- Transactions of ACL   2020 - PRESENT
- Computational Linguistics   2019 - 2022
- Journal of AI Research   2019

Co-organizer
- EACL 2024: Workshop on Uncertainty in NLP   2024
- NAACL 2022: Workshop on Deep Learning in Low Resource NLP (DeepLo)   2022
- EMNLP 2019: Workshop on Deep Learning in Low Resource NLP (DeepLo)   2019
- West Coast NLP Workshop   2018
- Women's Research Day   2017
- UW-NLP Retreat   2015-2016

Mentorship at Conferences
- EMNLP 2020, ACL 2020, EMNLP 2018

Internal Service

Univeristy of Southern California   *Los Angeles, CA, USA*
- Diversity, Equity and Inclusion Committee   2023-present
- Distinguished Lectures Committee   2023-present
- Annual Faculty Review Committee   2023-present
- PhD Fellowship Admissions Committee   2022-2023
- Viterbi Undergraduate Admission Scholarship   2023-2024

Allen Institute for AI   *Seattle WA, USA*
- Diversity, Equity and Inclusion Committee   2019-2022
- AllenAI Outstanding Engineer Scholarship Committee   2019

Paul G. Allen School of CSE, University of Washington   *Seattle WA, USA*
- Faculty Recruiting Liaison   2019
- Graduate Student Advisory Council   2018
- Outreach: Highline Public High School   2017
- CS: Gradswomen   2016-2019

Internships

Allen Institute for AI   *Seattle, WA, USA*
RESEARCH INTERN, **HOST**: MATTHEW E. PETERS   *Summer-Fall 2018*
- **Project:** Shallow Syntactic Priming of Large-scale Language Models

Google Inc.   *New York, NY, USA*
RESEARCH INTERN, **HOST**: ANKUR P. PARIKH   *Summer 2017*
- **Project:** Machine Comprehension for Google Neon

Columbia University   *New York, NY, USA*
RESEARCH ASSISTANT, CENTER FOR COMPUTATIONAL LEARNING SYSTEMS   *Jan 2013 - May 2013*

Google Inc.   *Mountain View, CA, USA*
SOFTWARE ENGINEER INTERN   *Summer 2012*
- Information retrieval evaluation for Google TV search

Microsoft Corporation   *Hyderabad, India*
SOFTWARE DEVELOPMENT INTERN   *Summer 2009*
- **Project:** Search functionality for customer hierarchies

References

Yejin Choi, yejin@cs.washington.edu   *UW; AI2*
Noah A. Smith, noah@cs.washington.edu   *UW; AI2*
Chris Dyer, cdyer@google.com   *Google DeepMind*
Luke Zettlemoyer, lsz@cs.washington.edu   *UW; FAIR*