

Wei Xu

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(Last updated: October 21, 2020)

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| RESEARCH | Natural Language Processing, Machine Learning, Social Media |
| CITIZENSHIP | United States |
| EDUCATION | Ph.D. in Computer Science, New York University , New York, NY 2014 Thesis: <i>Data-driven Approaches for Paraphrasing Across Language Variations</i> Advisor: Ralph Grishman; Committee: Satoshi Sekine, Ernest Davis, Bill Dolan (Microsoft Research), Luke Zettlemoyer (University of Washington/Facebook AI Research) B.S. and M.S. in Computer Science, Tsinghua University , Beijing, CHINA 2004/2007 Thesis: <i>Event-relevance Based Summarization</i> |
| APPOINTMENTS | Assistant Professor, Georgia Institute of Technology , Atlanta, GA Aug 2020 – present <i>School of Interactive Computing</i> Assistant Professor, The Ohio State University , Columbus, OH Aug 2016 – July 2020 <i>Department of Computer Science and Engineering</i> Visiting Faculty, Carnegie Mellon University , Pittsburgh, PA Summer 2019 <i>Language Technologies Institute</i> (Host: Graham Neubig) Postdoctoral Researcher, University of Pennsylvania , Philadelphia, PA Feb 2014 – Aug 2016 <i>Computer Information and Science Department</i> (Advisor: Chris Callison-Burch) Visiting PhD Student, University of Washington , Seattle, WA Jan 2012 – Dec 2013 <i>Computer Science and Engineering Department</i> Research Intern, Microsoft Research , Seattle, WA Summer 2011 <i>Internet Services Research Center</i> Research Intern, Educational Testing Service , Princeton, NJ Mar – May, Sep – Dec 2010 <i>Natural Language and Speech Group</i> Engineer Intern, Amazon.com , Seattle, WA Summer 2010 <i>Catalog Quality Group</i> Research Intern, Hong Kong Polytechnic University Sep 2005 – Feb 2006 <i>Department of Computing</i> |
| AWARDS | NSF CRII Award , 2018 Best Paper Award, COLING , 2018 Criteo Faculty Research Award (\$20,000), 2018 CrowdFlower AI for Everyone Award (\$25,000), 2018 NYU MacCracken PhD Fellowship , 2007 – 2012 |
| GRANTS | NSF Grant Collaborative Research: Automatic Text-Simplification and Reading-Assistance to Support Self-Directed Learning by Deaf and Hard-of-Hearing Computing Workers 2018 – 2021 PI (100%), total \$375,732 (including \$8,000 REU supplement) NSF CRII RI: Learning a Timely Semantic Resource from Social Media Data 2018 – 2021 PI (100%), total \$183,000 (including \$8,000 REU supplement) IARPA Research Grant Better Extraction from Text Towards Enhanced Retrieval 2019 – 2023 co-PI (50%), total \$850,000 (prime: Brown University) DARPA Research Grant Computational Simulation of Online Social Behavior 2017 – 2021 co-PI (50%), total \$600,000 (prime: Leidos) |
| SERVICES | Best Paper Award Committee: EMNLP (2018) Area Chair/Senior Area Chair: ACL (2020, 2019), AAAI (2020), NAACL (2021, 2019), COLING (2018), EMNLP (2020, 2018, 2016) Program Committee: ACL (2018, 2017, 2015, 2014, 2013), EMNLP (2017, 2015, 2014), NAACL (2015) WWW (2017, 2016, 2015), AAAI (2016, 2015, 2012), KDD (2015), COLING (2014) Publicity Chair: EMNLP (2019), NAACL (2018, 2016) Workshop Chair: ACL (2017) Steering Committee: SemEval (2017) NSF Review Panelist: CISE (2017) |

Journal Reviewer: Transactions of the Association for Computational (TACL), Journal of Artificial Intelligence Research (JAIR)

Organizer: Workshop on Noisy User-generated Text (<http://noisy-text.github.io/>) at EMNLP (2020, 2019, 2018, 2017), COLING (2016), ACL (2015); Mid-Atlantic Student Colloquium on Speech, Language and Learning (2016); SemEval Task 1: Paraphrase Identification and Semantic Similarity in Twitter (2015)

PUBLICATIONS (Underline is used to indicate student advisees at the Georgia Tech and Ohio State University.)

An Empirical Study of Pre-trained Transformers for Arabic Information Extraction

Wuwei Lan, Yang Chen, Wei Xu, Alan Ritter

EMNLP 2020, short paper (acceptance rate 16.7%)

WNUT-2020 Task 1 Overview: Extracting Entities and Relations from Wet Lab Protocols

Jeniya Tabassum, Sydney Lee, Wei Xu, Alan Ritter

EMNLP 2020 Workshop on Noisy User-generated Text (shared-task overview)

Neural CRF Model for Sentence Alignment in Text Simplification

Chao Jiang, Mounica Maddela, Wuwei Lan, Yang Zhong, Wei Xu

ACL 2020, long paper (acceptance rate 25.2%)

An Empirical Study of Named Entity Recognition in StackOverflow

Jeniya Tabassum, Mounica Maddela, Wei Xu, Alan Ritter

ACL 2020, long paper (acceptance rate 25.2%)

Generalizing Natural Language Analysis through Span-relation Representations

Zhengbao Jiang, Wei Xu, Jun Araki, Graham Neubig

ACL 2020, long paper (acceptance rate 25.2%)

Learning Relation Entailment with Structured and Textual Information

Zhengbao Jiang, Jun Araki, Donghan Yu, Ruohong Zhang, Wei Xu, Yiming Yang, Graham Neubig

AKBC 2020, long paper

Discourse Level Factors for Sentence Deletion in Text Simplification

Yang Zhong, Chao Jiang, Wei Xu, Junyi Jessy Li

AAAI 2020, long paper (acceptance rate 20.6%; oral presentation)

Multi-task Pairwise Neural Ranking for Hashtag Segmentation

Mounica Maddela, Wei Xu, Daniel Preotiuc-Pietro

ACL 2019, long paper (acceptance rate 25.7%)

A Word-Complexity Lexicon and A Neural Readability Ranking Model for Lexical Simplification

Mounica Maddela, Wei Xu

EMNLP 2018, long paper (acceptance rate 25.8%; oral presentation)

Neural Network Models for Paraphrase Identification, Semantic Textual Similarity, Natural Language Inference, and Question Answering

Wuwei Lan, Wei Xu

COLING 2018, long paper (**Best Paper Award**; selection rate $8/888 = 0.90\%$)

An Annotated Corpus for Machine Reading of Instructions in Wet Lab Protocols

Chaitanya Kulkarni, Wei Xu, Alan Ritter, Raghu Machiraju

NAACL 2018, short paper (acceptance rate 29%)

Character-based Neural Networks for Sentence Pair Modeling

Wuwei Lan, Wei Xu

NAACL 2018, short paper (acceptance rate 29%)

A Continuously Growing Dataset of Sentential Paraphrases

Wuwei Lan, Siyu Qiu, Hua He, Wei Xu

EMNLP 2017, long paper (acceptance rate 25.8%)

From Shakespeare to Twitter: What are Language Styles all about?

Wei Xu

EMNLP 2017 Workshop on Stylistic Variation

A Minimally Supervised Method for Recognizing and Normalizing Time Expressions in Twitter

Jeniya Tabassum, Alan Ritter, Wei Xu

EMNLP 2016, long paper (acceptance rate 26%; oral presentation)

Optimizing Statistical Machine Translation for Simplification

Wei Xu, Courtney Napoles, Ellie Pavlick, Quanze Chen, Chris Callison-Burch

TACL 2016, long paper (oral presentation at ACL 2016)

Discovering User Attribute Stylistic Differences via Paraphrasing
Daniel Preotiuc-Pietro, Wei Xu, Lyle Ungar
AAAI 2016, long paper (acceptance rate 26%; oral presentation)

Results of the WNUT16 Named Entity Recognition Shared Task
Benjamin Strauss, Bethany Toma, Alan Ritter, Marie-Catherine de Marneffe, Wei Xu
COLING 2016 Workshop on Noisy User-generated Text (shared-task overview)

Problems in Current Text Simplification Research: New Data Can Help
Wei Xu, Chris Callison-Burch, Courtney Napoles
TACL 2015, long paper (oral presentation at EMNLP 2015)

Cost Optimization for Crowdsourcing Translation
Mingkun Gao, Wei Xu, Chris Callison-Burch
NAACL 2015, long paper (acceptance rate 29%)

SemEval-2015 Task 1: Paraphrase and Semantic Similarity in Twitter
Wei Xu, Chris Callison-Burch, William B. Dolan
SemEval 2015, long paper (shared-task overview)

Shared Tasks of the 2015 Workshop on Noisy User-generated Text: Twitter Lexical Normalization and Named Entity Recognition
Timothy Baldwin, Marie Catherine de Marneffe, Bo Han, Young-Bum Kim, Alan Ritter, Wei Xu
ACL 2015 Workshop on Noisy User-generated Text (shared-task overview; author ordered alphabetically)

Extracting Lexically Divergent Paraphrases from Twitter
Wei Xu, Alan Ritter, Chris Callison-Burch, William B. Dolan, Yangfeng Ji
TACL 2014, long paper (oral presentation at NAACL 2015)

Infusion of Labeled Data into Distant Supervision for Relation Extraction
Maria Pershina, Bonan Min, Wei Xu, Ralph Grishman
ACL 2014, short paper (acceptance rate 25.2%; oral presentation)

Filling Knowledge Base Gaps for Distant Supervision of Relation Extraction
Wei Xu, Raphael Hoffmann, Le Zhao, Ralph Grishman
ACL 2013, short paper (acceptance rate 24%)

Gathering and Generating Paraphrases from Twitter with Application to Normalization
Wei Xu, Alan Ritter, Ralph Grishman
ACL Workshop on Building and Using Comparable Corpora 2013

A Preliminary Study of Tweet Summarization using Information Extraction
Wei Xu, Ralph Grishman, Adam Meyers, Alan Ritter
NAACL Workshop on Language Analysis in Social Media 2013

Paraphrasing for Style
Wei Xu, Alan Ritter, Bill Dolan, Ralph Grishman, Colin Cherry
COLING 2012, long paper (acceptance rate 25%)

Exploiting Syntactic and Distributional Information for Spelling Correction with Web-Scale N-grams Models
Wei Xu, Joel Tetreault, Martin Chodorow, Ralph Grishman, Le Zhao
EMNLP 2011, long paper (acceptance rate 23.7%)

New York University 2011 System for KBP (Knowledge Base Population) Slot Filing
Ang Sun, Ralph Grishman, Wei Xu, Bonan Min
TAC 2011 (best performance system in NIST KBP-2011 evaluation)

Passage Retrieval for Information Extraction using Distant Supervision
Wei Xu, Ralph Grishman, Le Zhao
IJCNLP 2011, long paper (acceptance rate 36%)

Who, What, When, Where, Why? Comparing Multiple Approaches to the Cross-Lingual 5W Task
Kristen Parton, Kathleen McKeown, Bob Coyne, Mona Diab, Ralph Grishman, Dilek Hakkani-Tür, Mary Harper, Heng Ji, Weiyun Ma, Adam Meyers, Sara Stolbach, Ang Sun, Gokhan Tur, Wei Xu, Sibel Yaman
ACL 2009, long paper (acceptance rate 21%; oral presentation)

A Parse-and-Trim Approach with Information Significance for Chinese Sentence Compression
Wei Xu, Ralph Grishman
ACL Workshop on Language Generation and Summarisation 2009

Transducing Logical Relations from Automatic and Manual Annotation
Adam Meyers, Michiko Kosaka, Heng Ji, Nianwen Xue, Mary Harper, Ang Sun, Wei Xu, Shasha Liao
ACL Workshop on Linguistic Annotation 2009

Automatic Recognition of Logical Relations for English, Chinese and Japanese in the GLARF Framework
Adam Meyers, Michiko Kosaka, Nianwen Xue, Heng Ji, Ang Sun, Shasha Liao, Wei Xu
SemEval 2009, long paper

Extractive Summarization using Inter- and Intra- Event Relevance
Wenjie Li, Wei Xu, Mingli Wu, Chunfa Yuan, Qin Lu
ACL 2006, long paper (acceptance rate 23%; oral presentation)

Using Non-Local Features to Improve Named Entity Recognition Recall
Xinnian Mao, Wei Xu, Yuan Dong, Haila Wang
PACLIC 2007, long paper

Deriving Event Relevance from the Ontology Constructed with Formal Concept Analysis
Wei Xu, Wenjie Li, Mingli Wu, Wei Li, Chunfa Yuan
CICLing 2006, long paper (acceptance rate 30.4%; oral presentation)

Building Document Graph for Text Summarization: An Event-based Approach
Wei Xu, Wenjie Li, Mingli Wu, Wei Li, Chunfa Yuan
ICCPOL 2006

The THU/PolyU System at MSE 2006: An Event-relevance based Approach
Wei Xu, Chunfa Yuan, Mingli Wu, Wenjie Li
MSE 2006

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|-------------------------|---|-----------------------|
| STUDENTS | Mounica Maddela (PhD student at GaTech) | 2017 – present |
| | Chao Jiang (PhD student at GaTech) | 2018 – present |
| | Wuwei Lan (PhD student at OSU) | 2016 – present |
| | Jeniya Tabassum (PhD student at OSU - co-advisor: Alan Ritter) | 2016 – present |
| | Yang Zhong (PhD student at OSU) | 2019 – present |
| | Jonathan Zheng (undergraduate at GaTech) | Autumn 2020 – present |
| | Sarah Flanagan (undergraduate at OSU) | 2018 – present |
| | Kenneth Koepcke (undergraduate at OSU) | Summer 2020 – present |
| | Yulu Qin (undergraduate at OSU) | Summer 2020 |
| | Brian Seeds (undergraduate at OSU) | Summer 2020 |
| | Panya Bhinder (high school intern at OSU) | Summer 2020 |
| | Solomon Wood (high school intern at OSU) | Spring 2020 |
| | Sam Stevens (undergraduate at OSU) | 2019 – 2020 |
| | Ethan Lee (undergraduate at OSU) | 2019 – 2020 |
| | Daniel Szoke (undergraduate at OSU) | 2019 – 2020 |
| | Jaewook Lee (undergraduate at OSU) | 2019 – 2020 |
| | Raleigh Potluri (undergraduate student at OSU) | 2018 – 2019 |
| | Lillian Chow (undergraduate student at OSU) | 2018 – 2019 |
| | Sydney Lee (completed undergraduate at OSU, now at Capital One) | 2018 – 2020 |
| | Rita Tong (completed undergraduate student at OSU, now a masters student at UWisconsin) | 2018 – 2019 |
| THESIS COMMITTEE | Pravar Mahajan (completed Masters student at OSU, now at Google) | 2016 – 2017 |
| | Piyush Ghai (completed Masters student at OSU, now at Amazon) | Autumn 2017 |
| TEACHING | Sanqiang Zhao (PhD student at UPitt – advisor: Daqing He) | 2020 (expected) |
| | Kai Cao (completed PhD student at NYU – advisor: Ralph Grishman) | 2017 |
| | Maria Pershina (completed PhD student at NYU – advisor: Ralph Grishman) | 2014 |
| INVITED TALKS | <i>CSE 5539 Social Media and Text Analytics</i> (http://socialmedia-class.org/) A new course integrated with research, covering from basic to state-of-the-art machine learning algorithms (teaching evaluation: 4.13/5.00 Autumn 2019, 4.40/5.00 Autumn 2017, 4.60/5.00 Autumn 2016; 5.72/6.00 at NASSLLI 2015) | |
| | <i>CSE 5522 Artificial Intelligence II: Advanced Techniques</i> Ohio State University, mixed undergraduate and graduate level (teaching evaluation: Spring 2020, 4.85/5.00 Autumn 2018, 4.50/5.00 Spring 2018) | |
| | <i>CSE 5525 Speech and Language Processing</i> Ohio State University, mixed undergraduate and graduate level (teaching evaluation 3.80/5.00 Spring 2017) | |
| | Importance of Data and Linguistics in Neural Language Generation Carnegie Mellon University, Pittsburgh, PA (LTI Colloquium) | |
| | Natural Language Understanding for Noisy Text University of Sheffield, Sheffield, United Kingdom (NLP Seminar) USC Information Sciences Institute, Los Angeles, CA (NLP Seminar) | |

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| Automatic Text Simplification | |
| University of Pittsburgh, Pittsburgh, PA (NLP Seminar) | Oct 2020 |
| Understanding and Generating Human Language | |
| Emory University, Atlanta, GA (CS Department Seminar) | Sep 2020 |
| University of Maryland, College Park, MD (CS Colloquium) | Feb 2020 |
| University of Massachusetts, Amherst, MA | Jan 2020 |
| Georgia Institute of Technology, Atlanta, GA | Dec 2019 |
| Learning for Unlimited Human Language | |
| Peking University, Beijing, China | Dec 2018 |
| Learning Large-scale Paraphrases for Natural Language Understanding and Generation | |
| Midwest Machine Learning Symposium, Chicago, IL | Jun 2018 |
| Facebook, Menlo Park, CA | May 2018 |
| Stanford Research Institute, Menlo Park, CA | May 2018 |
| Twitter, San Francisco, CA | May 2018 |
| IBM Thomas J. Watson Research Center, New York, NY | Nov 2017 |
| How does AI Understand Language? | |
| Women in Analytics Conference, Columbus, OH (Main Stage Panel) | Mar 2018 |
| Can Paraphrase be a Ultimate Solution for NLU and NLG? | |
| Google Research, New York, NY | Jul 2017 |
| Paraphrase \approx Monolingual Translation | |
| Amazon, Berlin, Germany | Aug 2016 |
| Multiple Instance Learning from Unlimited Text | |
| Microsoft Research Asia, Beijing, China | Dec 2016 |
| University of Delaware, Newark, DE | Sep 2016 |
| University of Edinburgh, Edinburgh, United Kingdom | May 2016 |
| Ohio State University, Columbus, OH | Apr 2016 |
| University of North Carolina, Chapel Hill, NC | Apr 2016 |
| Arizona State University, Tempe, AZ | Mar 2016 |
| Vanderbilt University, Nashville, TN | Mar 2016 |
| Imperial College London, London, United Kingdom | Mar 2016 |
| University of Waterloo, Waterloo, ON, Canada (CS Seminar) | Mar 2016 |
| Indiana University, Bloomington, IN (Computer Science Colloquium Series) | Feb 2016 |
| Washington University, St Louis, MI (Computer Science & Engineering Colloquia Series) | Feb 2016 |
| Simon Fraser University, Vancouver, BC, Canada | Feb 2016 |
| University of Alberta, Edmonton, AB, Canada | Feb 2016 |
| Yale University, New Haven, CT (CS Talk) | Feb 2016 |
| University of Maryland, College Park, MD (CLIP Colloquium) | Oct 2015 |
| Ohio State University, Columbus, OH (Clippers Seminar) | Oct 2015 |
| Large-scale Paraphrase Acquisition from Twitter | |
| DARPA's DEFT Project Meeting, Boulder, CO | May 2015 |
| Learning and Generating Paraphrases from Twitter and Beyond | |
| Carnegie Mellon University, Pittsburgh, PA | Apr 2015 |
| Columbia University, New York, NY (NLP Talk) | Apr 2015 |
| Johns Hopkins University, Baltimore, MD (CLSP Colloquium) | Feb 2015 |
| Paraphrases in Twitter | |
| Twitter, San Francisco, CA | Feb 2015 |
| Modeling Lexically Divergent Paraphrases in Twitter (and Shakespeare!) | |
| The City University of New York, New York, NY (NLP Seminar) | Mar 2015 |
| IBM Research - Almaden, San Jose, CA | Feb 2015 |
| University of California, Berkeley, CA | Feb 2015 |
| The University of Texas, Austin, TX (Forum for Artificial Intelligence) | Feb 2015 |
| Yahoo!, New York, NY | Dec 2014 |
| Carnegie Mellon University, Pittsburgh, PA (CL+NLP Lunch Seminar) | Nov 2014 |
| Microsoft Research, Seattle, WA (Visiting Speaker Series) | Aug 2014 |
| Incremental Information Extraction | |
| Stanford Research Institute, Palo Alto, CA | Apr 2012 |
| IARPA's KDD Project Meeting, San Diego, CA | May 2011 |

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| | Information Extraction Research | |
| | University of Washington, Seattle, WA | Jan 2011 |
| | Event-based Summarization | |
| | Thomson Reuters, Eagan, Minnesota, MN | Nov 2009 |
| OUTREACH | Mentor, Group Mentoring Sessions for undergraduate/master students at ACL 2020 | July 2020 |
| ACTIVITIES | Speaker/Judge, Ohio High School Hackathon | Mar 2019 |
| | Speaker, Franklin Friday art and science festival in Columbus Ohio | Mar 2019 |
| | Panelist, CogFest - Cognitive Science Festival | Apr 2018 |
| | Mentor, Women and Underrepresented Minorities in NLP Workshop | Jun 2018 |
| | Mentor, OSU's AI Hackathon | Apr 2018 |
| | Speaker/Panelist, Women in Analytics Conference | Mar 2018 |
| | Speaker, OSU's AI Club | Feb 2018 |
| | Judge, HackOhio | Oct 2017 |
| | Mentor, Women and Underrepresented Minorities in NLP Workshop | Jul 2017 |
| | Judge, Ohio High School Hackathon | Mar 2017 |
| | Presenter, Philadelphia Science Festival | Apr 2015 |
| OPEN SOURCE | <i>#HashtagMaster: A Semantic Analysis Tool for Hashtags</i> | Jun 2019 |
| CODE / DATA | https://mounicam.github.io/hashtag_master | |
| | <i>Pairwise Neural Ranking Model and SimplePPDB++</i> | Oct 2018 |
| | https://github.com/lanwuwei/SPM_toolkit | |
| | <i>SPM Toolkit for Sentence Pair Modeling</i> | Aug 2018 |
| | https://github.com/lanwuwei/SPM_toolkit | |
| | <i>LanguageNet: Large-scale Paraphrase Corpus</i> | Sep 2017 |
| | https://github.com/lanwuwei/paraphrase-dataset | |
| | <i>Syntax MT-based Text Simplification System and SARI Evaluation Metric</i> | May 2015 |
| | https://github.com/cocoxu/simplification/ (contribution to the Joshua Machine Translation Toolkit) | |
| | <i>NEWSELA Text Simplification Corpus</i> | Sep 2015 |
| | https://newseila.com/data/ (widely adopted as the benchmark for text simplification research) | |
| | <i>Multiple-instance Learning Paraphrase Model</i> | Dec 2014 |
| | https://github.com/cocoxu/multip | |
| | <i>Twitter Paraphrase Corpus</i> (shared-task at SemEval-2015) | Oct 2014 |
| | http://alt.qcri.org/semeval2015/task1/ | |
| | <i>Event-based Twitter Summarization System</i> | Nov 2013 |
| | https://github.com/cocoxu/twittersummarization/ | |
| | <i>Twitter Normalization Phrase Table</i> | Oct 2014 |
| | https://github.com/cocoxu/twitterparaphrase/ | |
| | <i>Parallel Shakespeare Corpus and Model</i> | Jul 2012 |
| | https://github.com/cocoxu/Shakespeare/ | |
| REFERENCES | Chris Callison-Burch | |
| | Associate Professor, Computer and Information Science Department | |
| | University of Pennsylvania, Philadelphia, PA | |
| | Sloan Research Fellow (2014), Chair of the NAACL Executive Board (2012-2013) | |
| | ✉ ccb@cis.upenn.edu | |
| | http://www.cis.upenn.edu/~ccb/ | |
| | Ralph Grishman | |
| | Professor, Computer Science Department, New York University, New York, NY | |
| | ACL Fellow (2017), President of ACL (1991), Department Chairman (1986-1988) | |
| | ✉ grishman@cs.nyu.edu | |
| | http://cs.nyu.edu/grishman/ | |
| | Mitch Marcus | |
| | Professor Emeritus, Computer and Information Science Department | |
| | University of Pennsylvania, Philadelphia, PA | |
| | ACL fellow (2011), AAAI fellow (1992), President of ACL (1997), Department Chairman | |
| | ✉ mitch@cis.upenn.edu | |
| | https://www.cis.upenn.edu/~mitch/home.html | |
| | Raymond Mooney | |
| | Professor, Computer Science Department, University of Texas, Austin, TX | |
| | ACL fellow (2014), ACM fellow (2010), AAAI fellow (2005) | |

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Luke Zettlemoyer

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University of Washington, Seattle, WA / Facebook AI Research

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<https://www.cs.washington.edu/people/faculty/lsz>