

Wei Xu

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CURRENT POSITION	Assistant Professor, The Ohio State University , Columbus, OH <i>Department of Computer Science and Engineering</i>	Aug 2016 – present
EDUCATION	Ph.D. in Computer Science, New York University , New York, NY 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 Thesis: <i>Event-relevance Based Summarization</i>	2014 2004/2007
RESEARCH	Natural Language Processing, Machine Learning, Social Media	
CITIZENSHIP	United States	
EXPERIENCE	Visiting Faculty, Carnegie Mellon University , Pittsburgh, PA <i>Language Technologies Institute</i> (Host: Graham Neubig) Postdoctoral Researcher, University of Pennsylvania , Philadelphia, PA <i>Computer Information and Science Department</i> (Advisor: Chris Callison-Burch) Visiting PhD Student, University of Washington , Seattle, WA <i>Computer Science and Engineering Department</i> Research Intern, Microsoft Research , Seattle, WA <i>Internet Services Research Center</i> Research Intern, Educational Testing Service , Princeton, NJ <i>Natural Language and Speech Group</i> Engineer Intern, Amazon.com , Seattle, WA <i>Catalog Quality Group</i> Research Intern, Hong Kong Polytechnic University <i>Department of Computing</i>	Summer 2019 Feb 2014 – Aug 2016 Jan 2012 – Dec 2013 Summer 2011 Mar – May, Sep – Dec 2010 Summer 2010 Sep 2005 – Feb 2006
AWARDS	Best Paper Award, COLING , 2018 Criteo Faculty Research Award (\$20,000), 2018 CrowdFlower AI for Everyone Award (\$25,000), 2018 NSF CRII Award , 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 PI (100%), total \$375,732 (including \$8,000 REU supplement) NSF CRII RI: Learning a Timely Semantic Resource from Social Media Data PI (100%), total \$175,000 IARPA Research Grant Better Extraction from Text Towards Enhanced Retrieval co-PI (50%), total \$850,000 (prime: Brown University) DARPA Research Grant Computational Simulation of Online Social Behavior co-PI (50%), total \$600,000 (prime: Leidos)	2018 – 2021 2018 – 2020 2019 – 2023 2017 – 2021
SERVICES	Best Paper Award Committee: EMNLP (2018) Senior Area Chair: ACL (2020) Area Chair: AACL (2020), ACL (2019), NAACL (2019), COLING (2018), EMNLP (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) Session Chair: ACL (2019, 2014), NAACL (2019, 2015), EMNLP (2018, 2017, 2016, 2015), COLING (2018), AAAI (2015) 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 (2019, 2018, 2017), COLING (2016), ACL (2015)

SemEval Task 1: Paraphrase Identification and Semantic Similarity in Twitter (2015)

Mid-Atlantic Student Colloquium on Speech, Language and Learning (2016)

PUBLICATIONS

(Underline is used to indicate student advisees at the Ohio State University. TACL is one of the most selective venues for NLP publications, which allows authors to choose any of the ACL/NAACL/EMNLP conferences to present the 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%)

The Importance of Subword Embeddings in 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)

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

STUDENTS	Wuwei Lan (PhD student at OSU)	2016 – present
	Mounica Maddela (PhD student at OSU)	2017 – present
	Chao Jiang (PhD student at OSU)	2018 – present
	Yang Zhong (PhD student at OSU)	2019 – present
	Jeniya Tabassum (PhD student at OSU - co-advisor: Alan Ritter)	2016 – present
	Sydney Lee (undergraduate at OSU)	2018 – present
	Sarah Flanagan (undergraduate at OSU)	2018 – present
	Sam Stevens (undergraduate at OSU)	2019 – present
	Daniel Szoke (undergraduate at OSU)	2019 – present
	Ethan Lee (undergraduate at OSU)	2019 – present
	Jaewook Lee (undergraduate at OSU)	2019 – present
	Nicholas Motlagh (undergraduate at OSU)	2019 – present
	Raleigh Potluri (undergraduate student at OSU)	2018 – 2019
	Lillian Chow (undergraduate student at OSU)	2018 – 2019
	Rita Tong (completed undergraduate student at OSU)	2018 – 2019
	Pravar Mahajan (completed Masters student at OSU, now at IBM Research)	2016 – 2017
	Piyush Ghai (completed Masters student at OSU, now at Amazon)	2017
	Mingkun Gao (completed Masters student at UPenn, now a PhD student at UIUC)	2015
	Siyu Qiu (completed Masters student at UPenn, now at Hulu)	2015
	Jim Chen (completed undergraduate student at UPenn, now a PhD student at UW)	2014 – 2015
	Ray Lei (completed undergraduate student at UPenn, now at Microsoft)	2014
	Chaitanya Kulkarni (PhD student at OSU - advisor: Raghu Machiraju)	2017 – 2019
	Sanqiang Zhao (PhD student at UPitt - phd thesis committee)	2019
	Kai Cao (completed PhD student at NYU - phd thesis committee)	2017
	Maria Pershina (completed PhD student at NYU, now at Bloomberg - phd thesis committee)	2014
TEACHING	<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: 4.40/5.00 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: 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)	
INVITED TALKS	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
	Information Extraction Research	
	University of Washington, Seattle, WA	Jan 2011
	Event-based Summarization	
	Thomson Reuters, Eagan, Minnesota, MN	Nov 2009
OUTREACH 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 Hackathon	Jun 2018 Mentor, OSU's AI
	Speaker/Panelist, Women in Analytics Conference	Apr 2018
	Speaker, OSU's AI Club	Mar 2018
	Judge, HackOhio	Feb 2018
	Mentor, Women and Underrepresented Minorities in NLP Workshop	Oct 2017
	Judge, Ohio High School Hackathon	Jul 2017
	Presenter, Philadelphia Science Festival	Mar 2017
		Apr 2015
OPEN SOURCE CODE / DATA	<i>#HashtagMaster: A Semantic Analysis Tool for Hashtags</i>	Jun 2019
	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://newsela.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/	