

Wei Xu

✉ wei.xu@cc.gatech.edu 🌐 <https://cocoxu.github.io/> 🐦 @cocoweixu
CODA Tech Square, Atlanta, GA, 30308 U.S.A.
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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 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
APPOINTMENTS	Assistant Professor, Georgia Institute of Technology , Atlanta, GA Aug 2020 – Present <i>School of Interactive Computing</i> Adjunct Assistant Professor, The Ohio State University , Columbus, OH Aug 2020 – July 2021 <i>Department of Computer Science and Engineering</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>
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
PROFESSIONAL SERVICES	Best Paper Award Committee: EMNLP (2018); Senior Area Chair: NAACL (2021), ACL (2020); Area Chair: EMNLP (2021, 2020, 2018, 2016), AAAI (2020), ACL (2019), NAACL (2019), COLING (2018); Program Committee: ACL (2021, 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). Journal Reviewer: Transactions of the Association for Computational (TACL), Journal of Artificial Intelligence Research (JAIR). Organizer: Workshop on Natural Language Generation, Evaluation, and Metrics at ACL (2021); Workshop on Noisy User-generated Text (http://noisy-text.github.io/) at EMNLP (2021, 2020, 2019, 2018, 2017), COLING (2016), ACL (2015); Mid-Atlantic Student Colloquium on Speech, Language and Learning (2016).
PUBLICATIONS	(<u>Underline</u> is used to indicate student advisees at the Georgia Tech and Ohio State University.) <i>BiSECT: Learning to Split and Rephrase Sentences with Bitexts</i> Joongwon Kim, <u>Mounica Maddela</u> *, Reno Kriz, Wei Xu, Chris Callison-Burch (*equal contribution) EMNLP 2021, long paper <i>Pre-train or Annotate? Domain Adaptation with a Constrained Budget</i> <u>Fan Bai</u> , Alan Ritter, Wei Xu EMNLP 2021 <i>WIKIBIAS: Detecting Multi-Span Subjective Biases in Language</i> <u>Yang Zhong</u> , Jingfeng Yang, Wei Xu, Diyi Yang EMNLP 2021 (Findings) <i>Neural semi-Markov CRF for Monolingual Word Alignment</i> <u>Wuwei Lan</u> *, <u>Chao Jiang</u> *, Wei Xu (*equal contribution) ACL 2021, long paper <i>Controllable Text Simplification with Explicit Paraphrasing</i> <u>Mounica Maddela</u> , Fernando Alva-Manchego, Wei Xu NAACL 2021, long paper

The GEM Benchmark: Natural Language Generation, its Evaluation and Metrics

Sebastian Gehrmann, Tosin Adewumi, Karmanya Aggarwal, Pawan Sasanka Ammanamanchi, Anuoluwapo Aremu, Antoine Bosselut, Khyathi Raghavi Chandu, Miruna-Adriana Clinciu, Dipanjan Das, Kaustubh Dhole, Wanyu Du, Esin Durmus, Ondřej Dušek, Chris Chinenye Emezue, Varun Gangal, Cristina Garbacea, Tatsunori Hashimoto, Yufang Hou, Yacine Jernite, Harsh Jhamtani, Yangfeng Ji, Shailza Jolly, Mihir Kale, Dhruv Kumar, Faisal Ladhak, Aman Madaan, [Mounica Maddela](#), Khyati Mahajan, Saad Mahamood, Bodhisattwa Prasad Majumder, Pedro Henrique Martins, Angelina McMillan-Major, Simon Mille, Emiel van Miltenburg, Moin Nadeem, Shashi Narayan, Vitaly Nikolaev, Andre Niyongabo Rubungo, Salomey Osei, Ankur Parikh, Laura Perez-Beltrachini, Niranjan Ramesh Rao, Vikas Raunak, Juan Diego Rodriguez, Sashank Santhanam, João Sedoc, Thibault Sellam, Samira Shaikh, Anastasia Shimorina, Marco Antonio Sobrevilla Cabezudo, Hendrik Strobelt, Nishant Subramani, Wei Xu, Diyi Yang, Akhila Yerukola, Jiawei Zhou (alphabetically ordered)

ACL 2021 Workshop on Natural Language Generation, Evaluation, and Metrics

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)

Data-driven Approaches for Paraphrasing Across Language Variations
 Wei Xu
 Ph.D. Thesis

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 2013 Workshop on Building and Using Comparable Corpora

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

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

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 – 2022
PI (100%), total \$375,732

IARPA Research Grant *Better Extraction from Text Towards Enhanced Retrieval* 2019 – 2023
co-PI (50%), total \$850,000 (prime: Brown University)

NSF CRII RI: Learning a Timely Semantic Resource from Social Media Data 2018 – 2021
PI (100%), total \$183,000

DARPA Research Grant *Computational Simulation of Online Social Behavior* 2017 – 2021
co-PI (50%), total \$600,000 (prime: Leidos)

STUDENTS

Mounica Maddela (PhD student at GaTech)	2017 – present
Chao Jiang (PhD student at GaTech)	2018 – present
Yao Dou (PhD student at GaTech)	2021 – present
Wuwei Lan (PhD student at OSU)	2016 – present
Jonathan Zheng (undergraduate at GaTech)	Autumn 2020 – present
David Heineman (undergraduate at GaTech)	Winter 2020 – present
Ema Goh (undergraduate at GaTech)	Winter 2020 – present
Michael Ryan (undergraduate at GaTech)	Winter 2020 – present
Srushti Nandu (research intern at GaTech)	Summer 2021 – present
Jeniya Tabassum (completed PhD student at OSU - co-advisor: Alan Ritter)	2016 – 2020
Yang Zhong (completed Masters student at OSU)	2019 – 2021
Pravar Mahajan (completed Masters student at OSU, now at Google)	2016 – 2017
Piyush Ghai (completed Masters student at OSU, now at Amazon)	Autumn 2017
Sydney Lee (completed undergraduate at OSU, now at Capital One)	2018 – 2020
Sarah Flanagan (completed undergraduate at OSU)	2018 – 2020
Sam Stevens (completed undergraduate at OSU)	2019 – 2020
Daniel Szoke (undergraduate at OSU)	2019 – 2020
Brian Seeds (undergraduate at OSU)	Summer 2020
Kenneth Koepcke (undergraduate at UIUC)	2020 – 2021
Panya Bhinder (high school intern at OSU)	Summer 2020
Solomon Wood (high school intern at OSU)	Spring 2020

THESIS COMMITTEE	Yuval Pinter (PhD student at GaTech – advisor: Jacob Eisenstein)	2021
	Sanqiang Zhao (completed PhD student at UPitt – advisor: Daqing He)	2021
	Kai Cao (completed PhD student at NYU – advisor: Ralph Grishman)	2017
	Maria Pershina (completed PhD student at NYU – advisor: Ralph Grishman)	2014
TEACHING	<i>CS 7650 Natural Language Processing</i> Georgia Tech, graduate level	
	<i>CS 4650 Natural Language Processing</i> Georgia Tech, undergraduate level	
	<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> 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> mixed undergraduate and graduate level (teaching evaluation 3.80/5.00 Spring 2017)	
INVITED TALKS	Importance of Data and Controllability in Neural Language Generation Stanford University (NLP Seminar)	Aug 2021
	University of California, Los Angeles (Big Data and ML Seminar)	Jun 2021
	Importance of Data and Linguistics in Neural Language Generation New York University, New York, NY (NLP and Text-as-Data Speaker Series)	May 2021
	Carnegie Mellon University, Pittsburgh, PA (LTI Colloquium)	Nov 2020
	Natural Language Understanding for Noisy Text University of Sheffield, Sheffield, United Kingdom (NLP Seminar)	Oct 2020
	USC Information Sciences Institute, Los Angeles, CA (NLP Seminar)	Oct 2020
	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
	Information Extraction Research	
	University of Washington, Seattle, WA	Jan 2011
	Event-based Summarization	
	Thomson Reuters, Eagan, Minnesota, MN	Nov 2009
OUTREACH ACTIVITIES	Mentor, Group Mentoring Sessions for undergraduate/master students at ACL 2020	July 2020
	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 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://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/	