Pengxiang Cheng

Contact Information	<i>Email:</i> pengxiang.cheng@gmail.com <i>Phone:</i> (512) 865-9275	<i>Website:</i> https://www.pengxiang.me	
EXPERIENCE	Bloomberg , New York, NY Senior Research Scientist at Bloomberg AI	September 2020 – present	
	• Developed robust models for named entity recognition and linking on news, social media, and financial documents.		
	• Built core NLP libraries and tools to power the development of various NLP models and products across the company.		
	Google , Mountain View, CA Software Engineering Intern at Google Pa	May 2015 – August 2015 yments team	
	• Designed and optimized tools and APIs for processing and correcting sensitive payments and workflow data.		
	Google , Mountain View, CA Software Engineering Intern at Machine I	May 2014 – August 2014 ntelligence team	
	 Improved an ontological word sense disambiguation (WSD) system by exploi- ting WordNet knowledge and dependency parses to augment training data. 		
Education	The University of Texas at Austin , Austin Ph.D. in Computer Science, August 2020	n, TX	
	Advisor: Katrin Erk	atons from Semantic Knowledge.	
	Tsinghua University , Beijing, China <i>B.Eng</i> . in Automation and <i>B.Econ</i> . in Ecor	nomics, July 2013	
PUBLICATIONS	Xisen Jin, Xiang Ren, Daniel Preoțiuc-Pietro, Pengxiang Cheng . 2023. Dataless Know- ledge Fusion by Merging Weights of Language Models. <i>International Conference on Learning Representations (ICLR)</i> .		
	Pengxiang Cheng , Katrin Erk. 2020. Attending to Entities for Better Text Understan- ding. <i>Proceedings of AAAI Conference on Artificial Intelligence (AAAI)</i> .		
	Pengxiang Cheng , Alex Tomkovich, Eric Holgate, Su Wang, Katrin Erk. 2019. The UTexas System for TAC 2019 SM-KBP Task 3: Hypothesis Detection with Graph Convolutional Networks. <i>Proceedings of Text Analysis Conference (TAC)</i> .		
	Pengxiang Cheng , Katrin Erk. 2019. Implicit Argument Prediction as Reading Comprehension. <i>Proceedings of AAAI Conference on Artificial Intelligence (AAAI)</i> .		
	Pengxiang Cheng , Eric Holgate, Katrin Erk. 2018. The UTexas System for TAC SM-KBP Task 3: Probabilistic Generation of Coherent Hypotheses. <i>Proceedings of Text Analysis Conference (TAC)</i> .		
	Pengxiang Cheng , Katrin Erk. 2018. Impliedge. <i>Proceedings of the 2018 Conference of for Computational Linguistics: Human Langu</i>	icit Argument Prediction with Event Know- the North American Chapter of the Association uage Technologies (NAACL).	

	I. Beltagy, Stephen Roller, Pengxiang Cheng , Katrin Erk, Raymond Mooney. 2016. Representing Meaning with a Combination of Logical and Distributional Models. <i>Computational Linguistics (CL)</i> , 42(4).			
	Yalin Sun, Pengxiang Cheng , Shengwei Wang, Hao Lyu, Matthew Lea shal, Byron C. Wallace. 2016. Crowdsourcing Information Extraction fo Systematic Reviews. 4th AAAI Conference on Human Computation and C (HCOMP): Works-in-Progress Track.			
Research Experience	 Computational Linguistics Lab, UT Austin August 2014 – June 2020 Graduate Research Assistant working with Dr. Katrin Erk Investigated different techniques of integrating semantic knowledge into endto-end neural models for better natural language understanding and reasoning. Developed new methods to infer implicit predicate-argument relations from the raw text by modeling narrative coherence and entity salience. Designed and implemented the UTexas system for the DARPA AIDA project on generating coherent hypotheses from large knowledge graphs. Built compositional distributional models for phrase representations on recognizing textual entailment and semantic textual similarity tasks. 			
	 Center for Perceptual Systems, UT Austin August 2013 – May 2014 Graduate Research Assistant working with Dr. Dana Ballard Studied computational muscle control in humanoid movement. Developed an efficient representation of muscle length changes using sparse decomposition to simulate the motor primitives of human gait. 			
TEACHING Experience	CS 389L: Automated Logic Reasoning , UT Austin Teaching Assistant (Instructor: Isil Dillig)	Spring 2017		
	CS 345H: Programming Languages: Honors , UT Austin Teaching Assistant (Instructor: Thomas Dillig)	Fall 2016 & Fall 2017		
	LIN 353C: Introduction to Computational Linguistics , UT A Teaching Assistant (Instructor: Katrin Erk)	ustin Spring 2015		
	CS 378: Computer Vision & 3D Reconstruction , UT Austin Teaching Assistant (Instructor: Bryan Klingner)	Fall 2014		
	CS 342C: Computational Brain , UT Austin Teaching Assistant (Instructor: Dana Ballard)	Spring 2014		
Service	 Program Committee member (reviewer): AAAI, ACL, ACL Rolling Review, EACL, EMNLP, IJCAI, NAACL Outstanding reviewer for EACL 2021, EMNLP 2020 			
Honors and Awards	 Academic Excellence Scholarship, Tsinghua University, 2011 Academic Excellence Scholarship, Tsinghua University, 2010 Silver Medal at Chinese Physics Olympiad, 2008 			