

Jessica Ouyang

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Department of Computer Science
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Research Interests

Automatic summarization, including main event summarization for personal narrative, cross-lingual summarization for low-resource languages, query-focused summarization, paraphrasing for summarization, and summarization of conversational speech; paraphrase alignment and semantic textual similarity; style transfer and controllable generation.

Appointment

Assistant Professor of Computer Science, The University of Texas at Dallas, Aug. 2019–present.

Education

PhD in Computer Science, Columbia University, June 2019.

MS in Computer Science, Columbia University, Feb. 2015.

BAS in Computer and Cognitive Science and BA in Linguistics, University of Pennsylvania, May 2012.

Publications

Jessica Ouyang and Kathleen McKeown. Neural network alignment for sentential paraphrases. ACL 2019.

Jessica Ouyang, Boya Song, and Kathleen McKeown. A robust abstractive system for cross-lingual summarization. NAACL-HLT 2019.

Helen Cheung, Sarah Grzebinski, Charles Sanky, Jessica Ouyang, and Stephen Krieger. Why do medical students choose to become neurologists? A computational linguistics analysis of residency personal statements. In the 2019 Annual Meeting of the American Academy of Neurology (AAN 2019).

Jessica Ouyang, Serina Chang, and Kathleen McKeown. Crowd-sourced iterative annotation for narrative summarization corpora. EACL 2017.

Jessica Ouyang and Kathleen McKeown. Modeling reportable events as turning points in narrative. EMNLP 2015. Notable Data Set Award.

Jessica Ouyang and Kathleen McKeown. Towards automatic detection of narrative structure. LREC 2014.

Teaching

Instructor, Natural Language Processing, The University of Texas at Dallas, Fall 2019.

Guest Lecturer, Coding Natural Language Processing, The New School, Fall 2018.

Guest Lecturer, Introduction to Natural Language Processing, Columbia University, Fall 2017.

Preceptor, Discrete Mathematics, Columbia University, Fall 2016 and Spring 2017.

Teaching Assistant, Artificial Intelligence, Columbia University, Fall 2014.

Teaching Assistant, Topics in Information Processing: From Data to Solutions, Columbia University, Fall 2013.

Mentor, Egleston Scholars Program, Columbia University, Dec. 2012–May 2015.

Teaching Assistant, Introduction to Computer Systems, University of Pennsylvania, Fall 2010 and Fall 2011.

Service

Reviewer, *Transactions on Asian and Low-Resource Language Information Processing*.

Program committee, ACL 2018–2019 (Summarization), *SEM 2019 (Resources & Evaluation), EMNLP 2019 (Summarization & Generation, Machine Learning for NLP), CONLL 2019 (Summarization & Generation).

Secondary reviewer, NAACL 2018–2019.

Mailing list administrator, Natural Language Processing Group (Columbia University), Sept. 2014–June 2019.

Treasurer, Women in Computer Science (Columbia University), May 2014–May 2015.

Publicity Chair, Women in Computer Science (Columbia University), May 2013–May 2014.

Academic and Industry Internships

Research Assistant, Johns Hopkins University (Human Language Technology Center of Excellence), June 2012–Aug. 2012.

Language Understanding Undergraduate Intern, Raytheon BBN Technologies, June 2011–Aug. 2011.

Associate Research Scientist, Johns Hopkins University (Human Language Technology Center of Excellence), June 2010–Aug. 2010.

Research Assistant, University of Pennsylvania (Prof. Mitch Marcus), May 2009–Aug. 2009.

Technical Background

Languages (Programming): Python (PyTorch, Theano), Java, Bash, HTML, C, Matlab, OCaml.

Languages (Natural): English, Mandarin Chinese, French.