

Jessica Ouyang

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Department of Computer Science
The University of Texas at Dallas, Richardson, TX 75080
jessica.ouyang@utdallas.edu
<http://utdallas.edu/~jessica.ouyang/>

Research Interests

Automatic summarization, including cross-lingual summarization, query-focused summarization, and summarization of scientific articles; computational narrative, including narrative summarization and argumentation with narrative; multimodal summarization and sentiment analysis; social media text processing.

Appointment

Assistant Professor of Computer Science, UT 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

Pooneh Mousavi and Jessica Ouyang. Detecting Hashtag Hijacking for Hashtag Activism. To appear in NLP4PI 2021.

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 *Neurology*, Issue 97.

Soumya Sourav and Jessica Ouyang. Lightweight models for multimodal sequential data. WASSA 2021. Best Paper Award.

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.

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 Dataset Award.

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

Grants

“Machine Learning Guided Molecular Design for Indoor Light Harvesting”; Mihaela Stefan (PI), Julia Hsu (co-PI), Jessica Ouyang (co-PI); UT Dallas SPIRe, \$100,000; May 2020 – present.

Awards and Fellowships

Notable Data Set Award, EMNLP 2015.

NSF IGERT Fellowship: From Data to Solutions, Columbia University, 2012-2019.

Invited Talks

“Adapting Automatic Summarization to New Sources of Information,” Johns Hopkins University, Mar. 2019.

“Current Research in Natural Language Processing,” The New School, Nov. 2018.

Campus Talks

“Natural Language Processing,” Hobson Wildenthal Honors College Round Table Series, Oct. 2020.

“Natural Language Processing for Hashtag Activism,” keynote address, Women in Data Science (WiDS) Dallas, Mar. 2020.

“Perspectives on the PhD Process,” UT Dallas Grace Series, Jan. 2020.

“Adapting Automatic Summarization to New Sources of Information,” UT Dallas AI Society, Sept. 2019.

Teaching

Instructor, Discrete Mathematics for Computing, UT Dallas, Spring 2021.

Instructor, Recent Advances in Computing – Advanced Natural Language Processing, UT Dallas, Spring 2020.

Instructor, Natural Language Processing, UT Dallas, Fall 2019 and Fall 2020.

Guest Lecturer, Introduction to Natural Language Processing (Prof. Kathleen McKeown), Columbia University, Fall 2017.

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

Teaching Assistant, Artificial Intelligence (Prof. Dragomir Radev), Columbia University, Fall 2014.

Teaching Assistant, Topics in Information Processing: From Data to Solutions (Profs. Julia Hirschberg and Shih-Fu Chang), Columbia University, Fall 2013.

Research mentor, Eggleston Scholars Program, Columbia University, Dec. 2012–May 2015.

Teaching Assistant, Introduction to Computer Systems (Prof. C.J. Taylor), University of Pennsylvania, Fall 2010 and Fall 2011.

Professional Activities

Journal reviewer: *ACM Transactions on Asian and Low-Resource Language Information Processing*, 2019–present; *Computational Linguistics*, 2020–present; *Data Mining and Knowledge Discovery*, 2021–present; *ACM Transactions on Interactive Intelligent Systems*, 2021–present.

Conference area chair: EMNLP 2021 (Summarization).

Conference program committee: ACL 2018–2021, CONLL 2019–2020, EMNLP 2019–2020, *SEM 2019, AAAI 2020–2021, SDM 2020–2021, ACL-IJCNLP 2020, EACL 2021, NAACL 2021.

Workshop program committee: NUSE 2020, SocialSens 2021.

Secondary reviewer, NAACL 2018–2019.

PhD Advisor: Pooneh Mousavi, Gerardo Ocampo Diaz, Xiangci Li.

Masters Thesis Advisor: Manas Bunde (2020).

PhD Dissertation Committee: Jing Lu (2020), Hemeng Tao (2021), Takshak Desai (2021), Kusha Sridhar, Parag Dakle, Dhruvkumar Patel, Yifan Li.

Masters Thesis Committee: Mathew Perez (2020), Saquib Irtiza (2021).

Service

Faculty Advisor, UT Dallas Girls Who Code, 2021–present.

Graduate Admissions Committee member, UT Dallas, 2019–present.

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.