

Rui Meng

Ph.D. Candidate
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Natural Language Processing, Machine Learning

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Education

University of Pittsburgh <i>Doctoral</i> <i>Information Science and Technology</i>	Pittsburgh, PA, USA <i>Sep 2015 – Present</i>
Wuhan University <i>Master</i> <i>Management Science and Engineering</i>	Wuhan, Hubei, China <i>Sep 2012 – Jul 2015</i>
Wuhan University <i>Bachelor</i> <i>Information Management and Systems</i>	Wuhan, Hubei, China <i>Sep 2008 – Jul 2012</i>

Work History

Research Intern, Google Research <ul style="list-style-type: none"><i>Lighter BERT models for Mobile Devices.</i>	May 2020–Aug 2020
Research Intern, Salesforce Research <ul style="list-style-type: none"><i>Pre-training for text summarization.</i>	Apr 2019–Dec 2019
Research Intern, Google Research <ul style="list-style-type: none"><i>Predict user satisfaction based on user actions on mobile devices.</i>	May 2018–Aug 2018
Research Intern, Yahoo! Research <ul style="list-style-type: none"><i>Develop online evaluation methods for industrial dialogue systems.</i>	May 2017-Aug 2017
Graduate Research Assistant, University of Pittsburgh <ul style="list-style-type: none"><i>Use text generation methods for keyphrase generation/representation and sentence simplification.</i>	Sep 2015-Present

Publications

- [1] **Meng, Rui**, Xingdi Yuan, Tong Wang, Adam Trischler and Daqing He. *An Empirical Study on Neural Keyphrase Generation*. (In submission)
- [2] **Meng, Rui**, Zhen Yue and Alyssa Glass. *Predicting User Engagement Types with Intelligent Assistants*. 43rd European Conference on Information Retrieval. (**ECIR2021**)
- [3] Yuan, Xingdi, Tong Wang, **Rui Meng**, Khushboo Thaker, Peter Brusilovsky, Daqing He, and Adam Trischler. "One Size Does Not Fit All: Generating and Evaluating Variable Number of Keyphrases." In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics* (pp. 7961–7975). (**ACL2020**)
- [4] **Meng, Rui**, Xingdi Yuan, Tong Wang, Peter Brusilovsky, Adam Trischler, and Daqing He. "Does order matter? an empirical study on generating multiple keyphrases as a sequence." *arXiv preprint arXiv:1909.03590* (2019).
- [5] Zhao, Sanqiang, **Rui Meng**, Daqing He, Andi Saptono, and Bambang Parmanto. "Integrating Transformer and Paraphrase Rules for Sentence Simplification." In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing*, pp. 3164-3173. 2018. (**EMNLP2018**)
- [6] **Meng, Rui**, Sanqiang Zhao, Shuguang Han, Daqing He, Peter Brusilovsky, and Yu Chi. "Deep Keyphrase Generation." In *Proceedings of the 55th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pp. 582-592. 2017. (**ACL2017**)
- [7] Chi, Yu, Shuguang Han, Daqing He, **Rui Meng**, "Exploring Knowledge Learning in Collaborative Information Seeking Process.", *Search as Learning Workshop @ SIGIR*. 2017.
- [8] Zhao, Sanqiang, Daqing He, Danchen Zhang, Lei Li, and **Rui Meng**. "Automatic ICD Code Assignment to Medical Text with Semantic Relational Tuples." *iConference 2017 Proceedings Vol. 2* (2017).
- [9] **Meng, Rui**, Zexin Zhao, Yu Chi, and Daqing He. "Automatic Course Website Discovery from Search Engine Results." *iConference 2017 Proceedings Vol. 2* (2017).
- [10] Chi, Yu, Tingting Jiang, Daqing He, and **Rui Meng**. "Towards an integrated clickstream data analysis framework for understanding web users' information behavior." *iConference 2017 Proceedings* (2017).
- [11] **Meng, Rui**, Wei Lu, Yu Chi, and Shuguang Han. "Automatic classification of citation function by new linguistic features." *iConference 2017 Proceedings* (2017).
- [12] Zhao, Sanqiang, Shuguang Han, **Rui Meng**, Daqing He, Danchen Zhang, "Learning Semantic Representation from Restaurant Reviews: A Study of Yelp Dataset", *iConference 2017*.
- [13] **Meng, Rui**, Wei Lu, Shuguang Han, Yu Chi, "Automatic Classification of Citation Function with Rich Linguistic Features.", *iConference 2017*.
- [14] **Meng, Rui**, Shuguang Han, Yun Huang, Daqing He, Peter Brusilovsky, "Knowledge-based Content Linking for Online Textbooks.", *IEEE/WIC/ACM International Conference on Web Intelligence*. 2016. (**WI2016**)
- [15] Liu, Xingbang, Wei Lu, **Rui Meng**, "Multi-label Citation Function Classification ", *Journal of Digital Library Forum*, 2016.
- [16] Lu, Wei, Xinghu Yue, Qikai Cheng, and **Rui Meng**. "Inverse local context analysis: A method for exhaustively gathering documents from limited accessible data sources." *The Electronic Library* 34, no. 3 (2016): 405-418.
- [17] Haihua Chen, **Rui Meng**, Wei Lu. "Research Review on Citation Recommendation of Academic Literatures.", *Journal of Library and Information Service*, 2015.

- [18] Lu, Wei, **Rui Meng**, Xingbang Liu, "An Annotation Framework for Citation Content - Towards the Semantic Scientific Mining.", *Journal of Library Science in China*, 2014.
- [19] Lu, Wei, Yi Liu, **Rui Meng**, Yingjie Chen, "Trend Detection in Web News Based on a Field-weighted Clustering Algorithm ", *Journal of Digital Library Forum*, 2011.

Reviewing Activity

Conferences:

- Annual Meeting of the ACL (ACL 2020, 2021)
- Conference on Empirical Methods in Natural Language Processing (EMNLP 2019,2020)
- North American Chapter of the ACL (NAACL 2019, 2020, 2021)
- European Chapter of the ACL (EACL 2021)
- Web Conference 2021
- AAAI Convergence on Artificial Intelligence (AAAI 2020, 2021)
- Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics (AACL 2020)
- CCF Conference on Natural Language Processing and Chinese Computing (NLPCC 2019)
- Student Research Workshop (SRW) at ACL/NAACL/AACL/EACL (SRW 2019,2020,2021)

Journals:

- *Neurocomputing*
- *Journal of Natural Language Engineering*
- *Transactions on the Web*
- *IEEE's Transactions on Learning Technologies*
- *The Electronic Library*

Grants, Honors, and Awards

Amazon Research Awards	2020
<ul style="list-style-type: none"> • Awarded to dissertation study "Transferable, Controllable, Applicable Keyphrase Generation" 	
Research Assistant Scholarship	2017-2019
<ul style="list-style-type: none"> • Funded by NSF/UPMC 	
Teaching Assistant Scholarship	2015-2017
<ul style="list-style-type: none"> • University of Pittsburgh 	
Passed Ph.D Preliminary Exam with Distinction	2016
<ul style="list-style-type: none"> • A recognition bestowed upon very few exceptional Ph.D students 	
The Pacemaker to Graduate Student	2014
<ul style="list-style-type: none"> • Awarded to top students (1%) for their excellence in studies and extracurricular activities 	
HSBC Scholarship, First Class Scholarship	2014
<ul style="list-style-type: none"> • Awarded to top 1% & 5% students 	
First Prize of National Olympiad in Informatics, China	2008
<ul style="list-style-type: none"> • Outstanding skills in algorithms and computer programming • Awarded to top 1% competitors in China 	