

Research Interests

I am currently working on dialogue representation and generation. I am also interested in the explainability and interpretability of natural language models.

Education

Queen's University, Canada Sep 2019 - present
Ph.D in Electrical and Computer Engineering
Advisor: Prof. Xiaodan Zhu

Peking University, China Sep 2014 - Jun 2018
B.S. in Computer Science
Advisor: Prof. Xiaojun Wan

Publications

1. **Hui Liu**, Danqing Zhang, Bing Yin, Xiaodan Zhu, “**Improving Pretrained Models for Zero-shot Multi-label Text Classification through Reinforced Label Hierarchy Reasoning**”, NAACL-HLT 2021
2. Tianda Li, Jia-Chen Gu, **Hui Liu**, Quan Liu, Zhen-hua Ling, Zhiming Su, Xiaodan Zhu, “**Have You Made A Decision? Where? A Pilot Study on Interpretability of Polarity Analysis Based on Advising Problem**”, ICASSP 2021
3. **Hui Liu**, Zhan Shi, Jia-Chen Gu, Quan Liu, Si Wei, Xiaodan Zhu, “**End-to-End Transition-Based Online Dialogue Disentanglement**”, IJCAI 2020
4. **Hui Liu**, Qingyu Yin, William Yang Wang, “**Towards Explainable NLP: A Generative Explanation Framework for Text Classification**”, ACL 2019
5. Jiwei Tan, Xiaojun Wan, **Hui Liu**, Jianguo Xiao, “**QuoteRec: Towards Quote Recommendation for Writings**”, ACM Transactions on Information Systems (TOIS), 2018

Experience

Search Science and AI Group Jul 2020 - Dec 2020
Amazon, Palo Alto, California, USA
Mentor: Dr. Danqing Zhang

Language and Information Technologies (LIT) Group Nov 2018 - Apr 2019
University of Michigan, Ann Arbor, USA
Supervisor: Prof. Rada Mihalcea

UC Santa Barbara NLP Group Jul 2018 - Sep 2018
University of California, Santa Barbara, USA
Supervisor: Prof. William Wang

Lenovo AI Lab Jan 2018 - May 2018
Lenovo, Beijing, China
Supervisor: Dr. Qingliang Miao

Teaching

1. Teaching Assistant, CISC/SOFT 423 Software Requirements, Queen's University, Winter 2021
2. Teaching Assistant, ELEC 373 Computer Networks I, Queen's University, Winter 2020
3. Teaching Assistant, ELEC 425/825 Machine Learning and Deep Learning, Queen's University, Fall 2019

Honors & Awards

2017	The Merit Student of Peking University
2017	Honorable Mention of Mathematical Contest in Modeling, USA