

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

Research Interests

I am currently interested in low resource language learning and dialogue representation learning. I am also interested in the explainability and interpretability of natural language models.

Publications

1. "Interpretable Low-Resource Legal Decision Making"
Rohan Bhambhoria, **Hui Liu**, Samuel Dahan, Xiaodan Zhu
AAAI 2022 AI for Social Impact Track, full paper
2. "Unsupervised Conversation Disentanglement through Co-Training"
Hui Liu, Zhan Shi, Xiaodan Zhu
EMNLP 2021, long paper
3. "Retrieval, Analogy, and Composition: A framework for Compositional Generalization in Image Captioning"
Zhan Shi, **Hui Liu**, Martin Renqiang Min, Christopher Malon, Li Erran Li, Xiaodan Zhu
Findings of EMNLP 2021, long paper
4. "Enhancing Descriptive Image Captioning with Natural Language Inference"
Zhan Shi, **Hui Liu**, Xiaodan Zhu
ACL-IJCNLP 2021, short paper
5. "Partner Matters! An Empirical Study on Fusing Personas for Personalized Response Selection in Retrieval-Based Chatbots"
Jia-Chen Gu, **Hui Liu**, Zhen-Hua Ling, Quan Liu, Zhigang Chen, Xiaodan Zhu
SIGIR 2021, full paper
6. "Improving Pretrained Models for Zero-shot Multi-label Text Classification through Reinforced Label Hierarchy Reasoning"
Hui Liu, Danqing Zhang, Bing Yin, Xiaodan Zhu
NAACL-HLT 2021, long paper
7. "Have You Made A Decision? Where? A Pilot Study on Interpretability of Polarity Analysis Based on Advising Problem"
Tianda Li, Jia-Chen Gu, **Hui Liu**, Quan Liu, Zhen-hua Ling, Zhiming Su, Xiaodan Zhu
ICASSP 2021, full paper
8. "End-to-End Transition-Based Online Dialogue Disentanglement"
Hui Liu, Zhan Shi, Jia-Chen Gu, Quan Liu, Si Wei, Xiaodan Zhu
IJCAI 2020, full paper
9. "Towards Explainable NLP: A Generative Explanation Framework for Text Classification"
Hui Liu, Qingyu Yin, William Yang Wang
ACL 2019, long paper

10. “QuoteRec: Towards Quote Recommendation for Writings”
Jiwei Tan, Xiaojun Wan, **Hui Liu**, Jianguo Xiao
ACM Transactions on Information Systems (TOIS), 2018

Experience

Applied Scientist Intern Search Science and AI Group , Amazon, Palo Alto, California, US	Jul 2020 - Dec 2020
Research Intern Lenovo AI Lab , Lenovo, Beijing, China	Jan 2018 - May 2018

Academic Services

Program Committee: EMNLP 2021, AAAI 2022, ACL 2022, ICLR 2022

Teaching

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