

## 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 have broad interests in the problems related to Natural Language Processing. I am particularly interested in the methods on how to exploit the data more efficiently for challenging NLP tasks.

## Publications

- Interpretable Low-Resource Legal Decision Making  
Rohan Bhambhoria, **Hui Liu**, Samuel Dahan, Xiaodan Zhu  
AAAI 2022 AI for Social Impact Track, full paper
- Unsupervised Conversation Disentanglement through Co-Training  
**Hui Liu**, Zhan Shi, Xiaodan Zhu  
EMNLP 2021, long paper
- 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
- Enhancing Descriptive Image Captioning with Natural Language Inference  
Zhan Shi, **Hui Liu**, Xiaodan Zhu  
ACL-IJCNLP 2021, short paper
- 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
- 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
- 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
- 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
- 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 Sep 2022 - Dec 2022  
**Amazon Search Mission Understanding Team**, Palo Alto, California, US

Applied Scientist Intern Jul 2020 - Dec 2020  
**Amazon Search Query Understanding Team**, Palo Alto, California, US

Research Intern Jan 2018 - May 2018  
**Lenovo AI Lab**, Lenovo, Beijing, China

## Academic Services

### Program Committee:

- 2021: EMNLP
- 2022: AAAI, ACL, ICLR, NeurIPS, EMNLP
- 2023: AAAI, EACL

## 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