

## 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

## Research Interests

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

## Publications

1. "Enhancing Descriptive Image Captioning with Natural Language Inference"  
Zhan Shi, **Hui Liu**, Xiaodan Zhu  
ACL-IJCNLP 2021
2. "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
3. "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
4. "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
5. "End-to-End Transition-Based Online Dialogue Disentanglement"  
**Hui Liu**, Zhan Shi, Jia-Chen Gu, Quan Liu, Si Wei, Xiaodan Zhu  
IJCAI 2020
6. "Towards Explainable NLP: A Generative Explanation Framework for Text Classification"  
**Hui Liu**, Qingyu Yin, William Yang Wang  
ACL 2019
7. "QuoteRec: Towards Quote Recommendation for Writings"  
Jiwei Tan, Xiaojun Wan, **Hui Liu**, Jianguo Xiao  
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**  
University of California, Santa Barbara, USA  
Supervisor: Prof. William Wang

Jul 2018 - Sep 2018

**Lenovo AI Lab**  
Lenovo, Beijing, China  
Supervisor: Dr. Qingliang Miao

Jan 2018 - May 2018

### **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