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Citizenship: China

Research interests My research interest includes information extraction, machine learning, computational social science and dialogue system. My research aims to build up knowledge-grounded dialogue system for industrial use.

Education **University of Alberta** *Edmonton, AB*
M.S. in Computing Science *Sept. 2021–Present*
Advisor: Prof. [Lili Mou](#)

Wuhan University *Wuhan, China*
B.E. in Computer Science and Technology *Sept. 2017–June 2021*
Thesis: *Dialogue System Relation Extraction Based on Domain Knowledge Graph*

Publications **Speaker-Oriented Latent Structures for Dialogue-Based Relation Extraction**
Guoshun Nan, **Guoqing Luo**, Sicong Leng, Yao Xiao and Wei Lu
Proceedings of EMNLP 2021

Research experience **StatNLP, Singapore University of Technology and Design** *Singapore*
Research Intern, Advisor: Associate Professor [Wei Lu](#) *May 2020–Feb. 2021*

- Propose a novel model for inducing speaker-oriented latent structures **SOLS** to alleviate the **entangled logic** and **information sparsity** issue in Dialogue-Based Relation Extraction (DiaRE) tasks.
- Conduct quantitative and qualitative experiments on several public datasets to demonstrate the importance of capturing the speaker-related information in such DiaRE tasks.

WHU NLP Lab, Wuhan University *Wuhan, China*
Research Intern, Advisor: Professor [Min Peng](#) *Feb. 2019–May 2020*

- Proposed a novel generative neural framework, **RDSGAN**, which learned the distribution of true positive instances and automatically generated valid instances to provide a clean dataset for distant supervision relation extraction.

Industry experience **Bytedance Inc.** *Beijing, China*
ByteDance AI Lab, Research Intern *Feb. 2021–Jun. 2021*

- Automatic audio quality score evaluation.
- Singing feature extraction.

Shenzhen Sunline Tech Co., Ltd. *Shenzhen, China*
Sunline Data, Software Engineer Intern *July 2019–Aug. 2019*

- Data Mining on the knowledge graph and utilize web crawler on several company websites.

Skills

- **Programming Languages:** Python, C/C++, MATLAB, Lingo
- **Language:** Mandarin (native), English (professional proficiency)

Awards

- Academic Excellent Scholarship (second-class), Wuhan University 2018, 2019, 2020
- Honorable Mention, ICM of Consortium for Mathematics and Its Applications 2020
- National Second Prize, China Undergraduate Mathematical Contest in Modeling 2019