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- Research interests**    My research interests include machine learning, and natural language processing, especially in large language models. I am currently working on: 1) text editing with large language models; 2) Maximizing the reward for neural text generation .
- Education**    **University of Alberta** Edmonton, AB  
 Ph.D. in Computing Science Sept. 2023 – Jun. 2027 (expected)  
 Advisor: Prof. [Lili Mou](#)
- University of Alberta** Edmonton, AB  
 M.S. in Computing Science Sept. 2021 – Sept. 2023  
 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**    **Prompt-Based Editing for Unsupervised Text Style Transfer [2]**  
 Guoqing Luo, Yutong Han, Lili Mou, Mauajama Firdaus  
*In Proceedings of EMNLP 2023 Findings*
- An Empirical Study on the Overlapping Problem of Open-Domain Dialogue Datasets [1]**  
 Yuqiao Wen, Guoqing Luo and Lili Mou  
*In Proceedings of LREC 2022 (oral)*
- Chain-of-Information Prompting for Unsupervised Abstractive Dialogue Summarization**  
 Guoqing Luo, Lili Mou, Mauajama Firdaus  
 In submission
- Preprints**    **RDSGAN: Rank-based distant supervision relation extraction with generative adversarial framework [1]**  
 Guoqing Luo, Jiaxin Pan and Min Peng
- Selected research experience**    **MANGA-UofANLP Lab, University of Alberta** Edmonton, AB  
 Research assistant | Advisor: Assistant professor [Dr. Lili Mou](#) Feb. 2021 – present
- Designed a prompt-based editing approach to transform a text generation into a classification problem for text style transfer, which is easier and more controllable than autoregressive generation.
  - Achieved **state-of-the-art** performance on three benchmark style transfer datasets.
- StatNLP Lab, Singapore University of Technology and Design** Singapore  
 Research intern | Advisor: Associate professor [Dr. Wei Lu](#) May 2020 – Feb. 2021
- Designed a graph-based model for inducing speaker-oriented latent structures **SOLS** to alleviate the **entangled logic** and **information sparsity** issue in dialogue-based relation extraction tasks.
  - Conducted quantitative and qualitative experiments on several public datasets to demonstrate the importance of capturing the speaker-related information in such relation extraction tasks.

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|                      | <b>WHU NLP Lab, Wuhan University</b><br>Research intern   Advisor: Professor <a href="#">Dr. Min Peng</a> <ul style="list-style-type: none"> <li>Proposed a novel generative neural framework, <b>RDSGAN</b>, which learned the distribution of true positive instances and automatically generated valid instances to provide a clean dataset for distant supervision relation extraction.</li> <li>Submitted one paper to <a href="#">Arxiv</a> as the first author.</li> </ul> | Wuhan, China<br>Feb. 2019 – May 2020                                     |
| Work experience      | <b>Bytedance Inc.</b><br>Research intern, ByteDance AI Lab <ul style="list-style-type: none"> <li>Used Pytorch to replicate MOSNet (TensorFlow) and achieved comparable results on two datasets.</li> <li>Designed a new end-to-end neural network pipeline for automatic speech quality evaluation.</li> </ul>   | Beijing, China<br>Feb. 2021 – Jun. 2021                                  |
|                      | <b>Shenzhen Sunline Tech Co., Ltd.</b><br>Software engineer intern, Sunline Data <ul style="list-style-type: none"> <li>Crawled data of a thousand-person community in <b>Python</b>, used Networkx Python to build a knowledge graph and neo4j for graph data visualization.</li> <li>Implemented the Louvain algorithm to find the most important people in the community.</li> </ul>   | Shenzhen, China<br>July 2019 – Aug. 2019                                 |
| Teaching experience  | <b>Department of Computing Science, University of Alberta</b> <ul style="list-style-type: none"> <li>CMPUT 267: Basics of Machine Learning</li> <li>CMPUT 466: Machine Learning</li> <li>CMPUT 466: Machine Learning</li> <li>CMPUT 174: Introduction to the Foundations of Computation I</li> </ul>  | Edmonton, Canada<br>Fall 2023<br>Winter 2023<br>Winter 2022<br>Fall 2021 |
| Volunteer experience | <ul style="list-style-type: none"> <li>EMNLP 2023 Reviewer</li> <li>EMNLP 2021 Student Volunteer</li> <li>Sri Lanka Nil Manil Foundation International Volunteer</li> </ul>   | 2023<br>2021<br>2019   |
| Skills               | <ul style="list-style-type: none"> <li><b>Programming Languages:</b> Python, C#, C/C++, MATLAB, Lingo</li> <li><b>Language:</b> Mandarin (native), English (professional proficiency)</li> <li><b>Libraries:</b> Pytorch, Tensorflow, pandas, NumPy, Matplotlib</li> </ul>  |  |
| Awards               | <ul style="list-style-type: none"> <li>Graduate Teaching Assistantships, University of Alberta</li> <li>Departmental Recruitment Scholarship, University of Alberta</li> <li>Academic Excellent Scholarship (Top 10%), Wuhan University</li> <li>Honorable Mention, ICM of Consortium for Mathematics and Its Applications</li> <li>National Second Prize (Top 5%), China Undergraduate Mathematical Contest in Modeling</li> </ul>   | 2021,2022,2023<br>2021<br>2018, 2019, 2020<br>2020<br>2019               |