Guoqing Luo

Email: gluo@ualberta.ca HomePage: https://www.frankgqluo.xyz/ Phone: (+1) 587-591-2681 Address: 116 St & 85 Ave, Edmonton, AB T6G 2R3, Canada

Research My research interests include machine learning, and natural language processing, especially in large language models. I am currently working on: 1) Large language model hallucination reduction; 2) Alignment methods from human feedback.

EducationUniversity of AlbertaEdmonton, ABPh.D. in Computing ScienceSept. 2023 – Jun. 2027 (expected)Advisor: Prof. Lili MouSept. 2023 – Jun. 2027 (expected)

University of Alberta

M.S. in Computing Science

Edmonton, AB Sept. 2021 – Sept. 2023

Advisor: Prof. Lili Mou	
Wuhan University	

Wuhan UniversityWuhan, ChinaB.E. in Computer Science and TechnologySept. 2017 – June 2021Thesis: Dialogue System Relation Extraction Based on Domain Knowledge Graph

Publications UAlberta at SemEval-2024 Task 1: A Potpourri of Methods for Quantifying Semantic Textual Relatedness

Ning Shi, Senyu Li, **Guoqing Luo**, Amirreza Mirzaei, Ali Rafiei, Jai Riley, Hadi Sheikhi, Mahvash Siavashpour, Mohammad Tavakoli, Bradley Hauer and Grzegorz Kondrak *To Appear at* **SemEval** 2024

Prompt-Based Editing for Unsupervised Text Style Transfer [2] Guoqing Luo, Yutong Han, Lili Mou, Mauajama Firdaus In Proceedings of EMNLP 2023

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] Guoging Luo, Jiaxin Pan and Min Peng
- SelectedMANGA-UofANLP Lab, University of AlbertaEdmonton, ABresearchResearch assistant | Advisor: Assistant professor Dr. Lili MouFeb. 2021 present• Designed a prompt-based editing approach to transform a zero-shot text generation into a zero-shot 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.				
WHU NLP Lab, Wuhan University	Wuhan, China			
Research intern Advisor: Professor Dr. 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				

• Submitted one paper to Arxiv as the first author.

supervision relation extraction.

Work	Bytedance Inc.	Beijing, China
experience	Research intern, ByteDance AI Lab	Feb. 2021 – Jun. 2021
	• Used Pytorch to replicate MOSNet (TensorFlow) and	l achieved comparable results on two datasets.

• Designed a new end-to-end neural network pipeline for automatic speech quality evaluation.

	Shenzhen Sunline Tech Co., Ltd.	Shenzhen, C	China	
	Software engineer intern, Sunline Data	July 2019 – Aug.	2019	
	• Crawled data of a thousand-person community in Python , used Networkx Python to build a			
	knowledge graph and neo4j for graph data visualization.	-		
	• Implemented the Louvain algorithm to find the most important people in the	he community.		
Teaching	Department of Computing Science, University of Alberta	Edmonton, Ca	nada	
experience	• CMPUT 267: Basics of Machine Learning	Fall	2023	
	• CMPUT 466: Machine Learning	Winter	2023	
	• CMPUT 466: Machine Learning	Winter	2022	
	• CMPUT 174: Introduction to the Foundations of Computation I	Fall	2021	
Volunteer	• EMNLP 2023 Reviewer		2023	
experience	• EMNLP 2021 Student Volunteer		2021	
-	 Sri Lanka Nil Manil Foundation International Volunteer 		2019	
Skills	• Programming Languages: Python, C#, C/C++, MATLAB, Lingo			
	• Language: Mandarin (native), English (professional proficiency)			
	• Libraries: Pytorch, Tensorflow, pandas, NumPy, Matplotlib			
Awards	Graduate Teaching Assistantships, University of Alberta	2021,2022,	2023	
	• Departmental Recruitment Scholarship, University of Alberta		2021	
	• Academic Excellent Scholarship (Top 10%), Wuhan University	2018, 2019,	2020	
	Honorable Mention, ICM of Consortium for Mathematics and Its Application	ons	2020	
	• National Second Prize (Top 5%), China Undergraduate Mathematical Conte	st in Modeling	2019	
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