Yunze Xiao

UNDERGRADUATE · COMPUTER SCIENCE

CMU-Q, Education City, Doha, Qatar

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Education

Carnegie Mellon University Qatar   *Doha, Qatar*
BS UNDERGRADUATE DEGREE   *Jul 2023 - May 2026*
- Minors in Computational Ethics

Research Experience

Carnegie Mellon University Qatar   *Doha, Qatar*
ADVISOR: PROF. HOUDA BOUAMOR   *May. 2023 - Now*
- Conducted in-depth exploration of challenges and potential future directions in the field of Chinese Offensive Language Detection.
- Introduced a novel task involving the sequence labeling of subversive phrases within Chinese text, contributing to the advancement of offensive language detection methods.
- Developed a comprehensive dataset consisting of over 6000 entries containing subversive language, facilitating the training and evaluation of models for the identified task.

Qatar Computing Research Institute   *Doha, Qatar*
ADVISOR: DR. FIROJ ALAM   *May. 2023 - Oct. 2023*
- Successfully competed in the ArAIEval 2023 shared task focused on propaganda and disinformation detection, achieving top-10 rankings in both subtasks.
- Leveraged advanced transformer-based models, including AraBERT and MarBERT, and fine-tuned them to effectively identify propagandistic and disinformative content in text data.
- Overcame challenges such as imbalanced data distribution to deliver competitive results in the task, demonstrating expertise in natural language processing and machine learning techniques.

Carnegie Mellon University - Language Technology Institute   *Pittsburgh, PA*
ADVISOR: PROF.DAVID MORTENSEN   *Sep. 2023 - Now*
- Conducted preliminary experiments to assess the reasoning abilities of language models (LLMs) regarding coerced part-of-speech constructions.
- Involved in designing a research setup involving various LLMs, including GPT-3.5, GPT-4, Llama 2, Vicuña, and Falcon, utilizing three types of constructions and conditions to investigate this phenomenon.

Professional Experience

2022-2024	**Course Assistant**, School of Computer Science, Carnegie Mellon University Qatar	
2022-2024	**Curriculum Support Developer**, School of Computer Science, Carnegie Mellon University Qatar	
2023-2024	**Student Instructor**, Carnegie Mellon University Qatar	

Publications

PUBLISHED

Yunze Xiao. 2022. A Transformer-based Attention Flow Model for Intelligent Question and Answering Chatbot. In 14th International Conference on Computer Research and Development (ICCRD), Dec 2022.

Yunze Xiao, Firoj Alam. 2023. Nexus at ArAIEval shared task: Persuasion techniques detection: an interdisciplinary approach to identifying manipulative strategies. In The First Arabic Natural Language Processing Conference (ArabicNLP 2023), Dec 2023.

IN PREP

Yunze Xiao, Houda Bouamor. 2024. A survey on Chinese Offensive language detection

Yunze Xiao, Houda Bouamor. 2024.Subversive phrase detection for Chinese Offensive Language detection

Yunze Xiao, Sunaya Upadhyay.2024. An Unified Framework for Problem Generation in Introductory CS courses

Presentations

INVITED TALKS

Spring 2024. *Implicit offensive language: Harms and solutions*. Invited talk: TEDxCMU-Q At,Doha, Qatar (In progress)

Teaching Experience

Fall 2023	**Principles of Computing**, Teaching Assistant	*Doha, Qatar*
Spring 2024	**NLP Ethics in a Nutshell**, Student Instructor	*Doha, Qatar*

Mentoring

2023-2024	**Ethan Pan**, Undergraduate, University of Rochester	*Rochester,NY*

Outreach & Professional Development

SERVICE AND OUTREACH

2023	**QCPC**, Volunteer
2023	**Student Majilis**, Head of Academics