

Yunze Xiao

RESEARCH ASSISTANT · COMPUTER SCIENCE

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Education

Carnegie Mellon University

BS COMPUTER SCIENCE

- Minors in Computational Ethics

Doha, Qatar

Jul 2023 - May 2026

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 REVIEW

Yunze Xiao, Houda Bouamor, Wajdi Zaghouani. 2024. A survey on Chinese Offensive language detection. In *The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*

David R. Mortensen, Valentina Izrailevitch, **Yunze Xiao**, Hinrich Schütze and Leonie Weissweiler. Verbing Weirds Llamas: Evaluation of English Zero-Derivation in Large Language Models. In *The 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)*

Research Experience

Carnegie Mellon University Qatar

ADVISOR: PROF. HOUDA BOUAMOR

Doha, Qatar

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

ADVISOR: DR. FIROJ ALAM

Doha, Qatar

May. 2023 - Oct. 2023

- Successfully competed in the ArAIEval 2023 shared task focused on propaganda and disinformation detection, achieving high 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

ADVISOR: PROF. DAVID MORTENSEN

Remote

Sep. 2023 - Oct. 2023

- Conducted preliminary experiments to evaluate the reasoning abilities of language models (LLMs) in coerced part-of-speech constructions.
- Designed a research setup involving multiple LLMs, including GPT-3.5, GPT-4, Llama 2, Vicuña, and Falcon.
- Utilized various construction types and conditions to investigate this phenomenon.

Singapore University of Technology and Design

Remote

ADVISOR: PROF. ROY KA-WEI LEE

Jan. 2024 - Present

- Acquiring an extensive lexicon of Subversive Phrases for research purposes.
- Developing and implementing evaluation metrics tailored for assessing the efficacy of Large Language Models (LLMs) in processing and managing subversive phrases.
- Conducting in-depth evaluations of 3-5 distinct LLMs to gauge their proficiency in comprehending and handling subversive phrases within the context of the project's objectives.

Professional Experience

2022-2024 **Curriculum Support Developer**, School of Computer Science, Carnegie Mellon University Qatar

2023-2024 **Student Instructor**, Carnegie Mellon University Qatar

Teaching Experience

F2023 **15-110:Principles of Computing**, Teaching Assistant

S2024 **98-031:NLP Ethics in a Nutshell**, Student Instructor

S2024 **15-112:Fundamentals of Programming and Computer Science**, Teaching Assistant

Mentoring

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

Rochester, NY

Outreach & Professional Development

SERVICE AND OUTREACH

2023 **Student Majilis**, Head of Academics

Doha, Qatar

2023-2024 **Special Interest Group in Fun stuff in AI**, Executive Member

Doha, Qatar

PROFESSIONAL MEMBERSHIPS

ACL member

IEEE member