CHIYU ZHANG

chivuzh@mail.ubc.ca

470-1961 East Mall, Vancouver, BC, Canada, V6T 1Z1

A: https://chiyuzhang94.github.io/

HIGHLIGHTS

• 8+ years of experience in research of machine • Libraries: NLTK, spaCy, gensim, scikit-learn, learning and natural language processing (NLP). Published in top-tier conferences.

PyTorch, Keras, & Transformers

• Database: MySQL, Solr, Hadoop, & Spark

• Programming: Python, R, C#, & MatLab

EDUCATION

The University of British Columbia, Canada

Sep. 2018 - Aug. 2024 (expected)

Average: 88.1/100.0

Doctor of Philosophy in Information Science

Advisor: Dr. Muhammad Abdul-Mageed **Research Interests:** Natural Language Processing and Deep Learning.

Clarkson University, USA Aug. 2016 - Dec. 2017

Master of Science in Data Science GPA: 3.94/4.00

Advisor: Dr. Boris Jukic

Xiamen University of Technology, China Sep. 2012 - Jun. 2016

Average: 87.42/100.00 Bachelor in Information Systems (Honours)

Advisor: Dr. Yihui Qiu

EXPERIENCE

Research Scientist Intern

Aug. 2023 - Present

Meta, USA

 Working on a project to improve a news recommendation system by capturing users' holistic interests from their interactions. Leveraging contrastive learning and data augmentation with large language models (LLMs) to discern the relevancy between users and potential news suggestions.

Research Intern May - Aug. 2023

Google, Canada

• Worked on a research project focused on enhancing text style transfer and model transparency. Utilized LLMs for self-explanatory generation and incorporated knowledge distillation techniques for streamlined model efficiency.

Research Assistant Aug. 2018 - May 2023

The University of British Columbia, Canada

• Worked on various NLP and deep learning research projects, e.g., enhancing mono- and cross-lingual language representations with billion-scale social media data and Transformer-based models, deep learning for socio-pragmatics, identification of lexical dialect variations, language components analysis, graph-based user modelling, and text style transfer.

Visiting Researcher

Dec. 2022 - May 2023

Mohamed bin Zayed University of Artificial Intelligence, UAE

• Worked on NLP and deep learning research projects, e.g., developing large language models for Arabic natural language understanding, Arabic dialects translation, and large model distilling and compressing. Prepared materials and instructed lab sections of a graduate-level course.

Machine Learning Research Intern

Borealis AI, Canada

• Worked on a research project aimed at enhancing the robustness and performance of neural-based representation models for time-series through contrastive learning and self-supervised learning.

Senior Teaching Assistant

Sep. 2019 - May 2022

Sep. 2022 - Feb. 2023

The University of British Columbia, Canada

• Prepared materials and instructed lab sections of four machine learning courses, e.g., supervised learning and machine translation, in the Master of Computational Linguistics program.

Research Technician

Apr. 2018 - Jun. 2018

The University of Tennessee Health Science Center, USA

• Worked on the development of a web tool for biomedical text mining. Tasks included establishing a database and search engine (with Solr), and mining 2.2M biomedical literature to identify specific relationships between proteins, genes, or given keywords applying NLP and deep learning methods.

SELECTED PUBLICATIONS

- The Skipped Beat: A Study of Sociopragmatic Understanding in LLMs for 64 Languages Zhang, Chiyu, Doan, K. D., Liao, Q., & Abdul-Mageed, M., (2023). In Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP). ACL.
- Contrastive Learning of Sociopragmatic Meaning in Social Media Zhang, Chiyu, Abdul-Mageed, M., & Jawahar, G., (2023). Findings of the Association for Computational Linguistics: ACL 2023. ACL.
- Decay No More: A Persistent Twitter Dataset for Learning Social Meaning Zhang, Chiyu, Abdul-Mageed, M., & N., E. M. B., (2022). In Proceedings of the 1st Workshop on Novel Evaluation Approaches for Text Classification Systems on Social Media. ICWSM. (Best paper)
- Improving Social Meaning Detection with Pragmatic Masking and Surrogate Fine-Tuning Zhang, Chiyu, & Abdul-Mageed, M., (2022). In Proceedings of the 12th Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis (WASSA). ACL.
- Toward Micro-Dialect Identification in Diaglossic and Code-Switched Environments
 Abdul-Mageed, M., Zhang, Chiyu, E., A., & U., L., (2020). In Proceedings of the 2020 Conference
 on Empirical Methods in Natural Language Processing (EMNLP). ACL.
- Multi-Task Bidirectional Transformer Representations for Irony Detection Zhang, Chiyu, & Abdul-Mageed, M., (2019). In Proceedings of the 11th meeting of the Forum for Information Retrieval Evaluation 2019 (FIRE). CEUR-WS.org.
- No Army, No Navy: BERT Semi-Supervised Learning of Arabic Dialects

 Zhang, Chiyu, & Abdul-Mageed, M., (2019). In Proceedings of the Fourth Arabic Natural Language

 Processing Workshop (WANLP). ACL. (Best system paper)

HONORS AND AWARDS

- Distinguished Teaching Award (2022), UBC
- Affiliated Fellowship (2021-2022), UBC.
- President's Academic Excellence Initiative Ph.D. Award (2020-2023), UBC.
- Evelyn Markwei Memorial Award (2020-2021), UBC.
- Ph.D. Travel Award of School of Information (2019 and 2021), UBC.
- Graduate Scholarship of School of Information (2018-2023), UBC.
- Graduate Scholarship (2016-2017), Clarkson University.