CHIYU ZHANG

chiyuzh@mail.ubc.ca

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

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

HIGHLIGHTS

learning and natural language processing (NLP).

• 8+ years of experience in research of machine • Libraries: NLTK, spaCy, gensim, scikit-learn, PyTorch, Keras, & Transformers

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

• Database: MySQL, Solr, Hadoop, & Spark

• Coursework: Computational Linguistics, Deep Learning in NLP, Social Networks, Machine Learning and Data Mining, Computer Networking, Data Structures, Systematic Program Design.

EDUCATION

The University of British Columbia, Canada

Sep. 2018 - May 2024 (expected)

Doctor of Philosophy in Information Science

Average: 88.1/100.0

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

Bachelor in Information Systems (Honours)

Average: 87.42/100.00

Advisor: Dr. Yihui Qiu

EXPERIENCE

Research Intern

May 2023 - Present

Google, Canada

 Working on a research project aimed at improving text style transfer task by utilizing large language models, model distillation, and reinforcement learning.

Research Assistant Aug. 2018 - May 2023

The University of British Columbia, Canada

• Working on various NLP and deep learning research projects, e.g., enhancing mono- and crosslingual 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

Sep. 2022 - Feb. 2023

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

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.

Research Assistant

Aug. 2016 - Mar. 2018

Clarkson University, USA

• Led a data science project that analyzed 200K job postings to enhance the profile matching service for applicants and recruiters. Tasks included data collection, database deployment, and modelling.

SELECTED PUBLICATIONS

- Contrastive Learning of Sociopragmatic Meaning in Social Media Zhang, Chiyu, & Abdul-Mageed, M., (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.
- BERT-Based Arabic Social Media Author Profiling

 Zhang, Chiyu, & Abdul-Mageed, M., (2019). In Proceedings of the 11th meeting of the Forum for Information Retrieval Evaluation 2019 (FIRE). CEUR-WS.org.
- 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.