

# ZHUOWEI CHEN

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## Education

**Guangdong University of Foreign Studies (GPA:3.78/4.00, Rank: 7/144)** **Expected July 2025**  
*Bachelor in Software Engineering* *Guangzhou, China*

**University of California, Berkeley (GPA:4.00/4.00)** **Aug.2023 – Jan.2024**  
*Undergraduate Visiting Student* *Berkeley, USA*

## Research Experience

**Guangzhou Key Laboratory of Multilingual Intelligent Processing** **Sept.2021 – Jan.2024**  
*Research Assistant* *Guangzhou, China*

- **China-Oriented Southeastern Asia Trade Relation Analysis**

Develops a system for key media monitoring, media relation graph construction, and public opinion summarization.

- **Media Entity Relation Graph Construction**

Built a relation extraction model based on a pre-trained language model and trained it with distantly supervised data. This project proposed a noise correction framework that enables noise labels to be updated with parameters simultaneously, and selectively aggregate sentence-level features during bag-level classification.

- **Hindi Pre-trained Language Model Enhancement**

Fused features of dual script Hindi PLMs to get enhanced representation. Introduced and optimized multiple feature fusion methods, including concatenation, addition, and attention. Ablation studies were also conducted.

- **Trade-Oriented Multi-Label Sentiment Analysis**

Constructed a framework for multi-label text classification based on pre-trained language model. We cast this task into a token sequence prediction task to enhance correlations between labels, and augmented the backbone BERT model with external knowledge by adding a knowledge modulation layer within BERT.

- **Key Media Reports Collection**

Used Scrapy and SQL to develop page crawler framework to collect key media news in corresponding nations.

## AI Lab, Wisers Information Limited

**Dec.2023 – Present**

*NLP Intern*

*Hong Kong, China*

- **Hong Kong Tourism Composite**

A value to describe Hong Kong tourism trends based on hotel status and tourist arrivals.

- Built LLM-based sentiment and spam analysis models for public opinions from social media.

- Applied transformer for time series regression to predict number of arrivals with features from social media contents.

- Used machine learning models for predicting future hotel prices and occupancy levels.

## Publications

\* represents corresponding author.

- [1]. Lianxi Wang, **Zhuowei Chen\***, and Yujia Tian\*. Enhancing Hindi Feature Representation Through Fusion of Dual-Script Word Embeddings. *Proceedings of the 31st International Conference on Computational Linguistics, 2024.*
- [2]. **Zhuowei Chen**, Yujia Tian, Lianxi Wang\*, and Shengyi Jiang. A Distantly-Supervised Relation Extraction Method Based on Selective Gate and Noise Correction. *China National Conference on Chinese Computational Linguistics, 2023.*
- [3]. **Zhuowei Chen**, Huayu Huang, and Lianxi Wang\*. LAKA: A Label-Aware and Knowledge-Augmented Framework for Multi-Label Text Classification. *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics, 2024.* (Under review)

## Selected Honors

**First-class Scholarship**, GDUFS General Scholarship, 2023

**Gold Medal**, Cantonese College Computer Design Competition, 2022

**Silver Medal**, National College Student Mathematical Modelling Competition, 2023

**Silver Medal**, National College Computer Design Competition, 2022

## Other Related Experience and Skills

**Conference Participant.** Poster presentation on *The 22nd China National Conference on Computational Linguistics.*

**Onboard Training Assistance.** TA for Language Processing Technique.

**Programming:** Python, Java, JS/HTML/CSS, C/C++, SQL, Golang