

# Zhuowei Chen

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## EDUCATION

### Guangdong University of Foreign Studies (GDUFS)

B.E. in Software Engineering. Advisor: Lianxi Wang  
GPA: 3.80/4.00

Guangzhou, China

*Sept 2021 - June 2025*

### University of California, Berkeley (UCB)

Courses: NLP, Introduction to AI, Computer Security  
GPA: 4.00/4.00

Berkeley, CA

*Aug 2023 - Jan 2024*

## PUBLICATIONS

\* represents equal contributions and † represents the corresponding author.

- Zhuowei Chen**, Qiannan Zhang, Shichao Pei.  
[Injecting Universal Jailbreak Backdoors to LLMs in Minutes.](#)  
The Thirteenth International Conference on Learning Representations, ICLR 2025.
- Zhuowei Chen**, Yuben Wu, Xinfeng Liao, Yujia Tian, Lianxi Wang<sup>†</sup>.  
[An Effective Deployment of Diffusion LM for Data Augmentation in Low-Resource Sentiment Classification.](#)  
The 2024 Conference on Empirical Methods in Natural Language Processing, EMNLP 2024.
- Lianxi Wang, Yujia Tian\*, **Zhuowei Chen**\*<sup>†</sup>.  
[Enhancing Hindi Feature Representation Through Fusion of Dual-Script Word Embeddings.](#)  
The Joint Conference on Computational Linguistics, Language Resources and Evaluation, LREC-COLING 2024.
- Zhuowei Chen**, Yujia Tian, Lianxi Wang<sup>†</sup>, Shengyi Jiang.  
[A Distantly-Supervised Relation Extraction Method Based on Selective Gate and Noise Correction.](#)  
The 22nd China National Conference on Computational Linguistics, CCL 2023.
- Lianxi Wang, Huayu Huang, **Zhuowei Chen**<sup>†</sup>.  
A Knowledge-Augmented and Label-Aware Framework for Multi-Label Text Classification.  
(Under review @ Journal of Computer Science and Technology)
- Lianxi Wang, Yujia Tian\*, **Zhuowei Chen**\*, Mutong Li, Nankai Lin<sup>†</sup>.  
EditMDS: An Iterative Optimization Method for Multi-Document Summarization Based on Edit Operations.  
(Under review @ ICASSP)

## SELECTED HONORS

- China National Scholarship** (Top 0.2%) Ministry of Education of the PRC, 2024
- First-class Scholarship** (Top 4%) Guangdong University of Foreign Studies, 2024
- First-class Scholarship** (Top 4%) Guangdong University of Foreign Studies, 2023
- Silver Medal** (Top 5%) National College Computer Design Competition, 2022
- Bronze Medal** China Undergraduate Mathematical Contest in Modeling (Regional), 2023

## RESEARCH EXPERIENCE

### University of Massachusetts Boston

*Research Intern*

Supervisor: Dr. Shichao Pei

Boston, MA

*March 2024 - Oct 2024*

- JailbreakLLM: Exploring Novel Jailbreak Backdoor Attacks on LLMs. (ICLR 2025)
  - Proposed a novel method to inject universal backdoors into LLMs without additional datasets or extensive computational overhead.
  - Developed a multi-node target estimation strategy that preserves attack stealthiness, effectively overwhelming and disabling the internal safety mechanisms of large language models.
  - Executed comprehensive experiments, confirming a high jailbreak success rate and highlighting the urgency for advanced defensive strategies in LLMs.

## Guangzhou Key Laboratory of Multilingual Intelligent Processing

Undergraduate Research Student

Supervisor: Prof. Lianxi Wang

Guangzhou, China

Nov 2021 – March 2024

- Deploying Diffusion LM for Data Augmentation in Text Classification. (EMNLP 2024)
  - Fine-tuned LMs with a diffusion objective to capture in-domain knowledge and generate samples by reconstructing label-related tokens.
  - Designed attention-based mask schedule for the diffusion LM, balancing domain consistency, label consistency, and context diversity.
  - Conducted analyses and visualizations to study its underlying mechanism, followed by experiments validating its effectiveness across various low-resource scenarios.
- Enhancing Hindi Representations via Fusion of Pre-trained Language Models. (COLING 2024)
  - Proposed a method to enhance Hindi feature representation by combining Devanagari and Romanized Hindi pre-trained language models.
  - Conducted an in-depth comparison of different feature fusion techniques, including concatenation, summation, and cross-attention.
  - Ablations and extensive NLU task experiments show the superiority of our method, demonstrating the potential of multi-script integration to enhance low-resource language models.
- Distantly Supervised Relation Extraction (DSRE) with Learning-with-Noise Methods. (CCL 2023)
  - Combined selective gate and noise correction training framework for DSRE, which performs data selection and corrects noise labels during a three-stage training process.
  - Experiments demonstrated state-of-the-art performance, revealing a promising new approach for applying training-with-noise techniques in NLP.
- Multi-Label Text Classification (MLTC) with Knowledge Augmentation and Span Prediction.
  - Integrated span-prediction with an adapted GNN-based knowledge augmentation module to enhance MLTC.
  - Conducted visualizations and analyses to study its working mechanism, emphasizing the critical role of incorporating domain-specific knowledge for LM.

## SELECTED PROJECTS

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- BiasLLM: Adversarial Knowledge Editing Attacks on LLMs.
  - Combined GNNs with locate-then-edit techniques (ROME) to attack Llama-2, successfully exposing significant biases within the model.
- Multimodal NLP: Image-Text Interfacing with CLIP and Rational Speech Acts.
  - Used the CLIP model for image and caption retrieval, and further improved retrieval effectiveness by developing and applying a Rational Speech Acts inference procedure.

## WORK EXPERIENCE

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AI Lab, Wisers Information Ltd.

NLP Research Intern

Hong Kong, China

Dec 2023 - March 2024

- Built BERT-based textual classification models with human-annotated social media content.
- Applied transformers for time series regression to predict regional arrivals.

## LANGUAGES & SKILLS

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- **Programming:** Python, Java, SQL, JS/HTML/CSS, C/C++, Golang.
- **Languages:** English(IELTS 7.5), Mandarin(Native), Cantonese(Native).

## OTHER RELATED EXPERIENCE

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- **Conference Attendance.** Poster and oral presentation on *EMNLP 2024* and *LREC-COLING 2024*.
- **Teaching Assistance.** TA for Language Processing Technique.
- **Member of Publicity at Student Union.** Organized poster presentations promoting AI equity.
- **Volunteer Lecturer at Dongguan Library.** Introduced basics of AI to the public.