

# Zijing Cai

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## RESEARCH INTERESTS

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Zijing Cai is a first-year M.Sc. student at USTC (advertised by Fuli Feng and Xiangnan He). His interested research topics include (but are not limited to):

- **Pre-trained Language Model**, investigating how to leverage the rich prior knowledge in pre-trained language models to accomplish general tasks, with a particular focus on machine reading comprehension and prompt-based learning frameworks.
- **Contrastive Learning**, focusing on leveraging contrastive learning to enhance the quality of embeddings and to enable more nuanced and context-aware language model performances.
- **Dual Learning**, utilizing the primal-dual structure between machine learning tasks to obtain effective feedback/regularization, guiding and reinforcing the learning process, thereby reducing the requirements for large-scale learning.

## EDUCATION

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**University of Science and Technology of China**  
*M.S. in Artificial Intelligence and Data Science*

expected Sep.2025 - Jul.2028

**Zhejiang Gongshang University**  
*B.S. in Computer Science and Technology*

Sep.2020 - Jul.2024

## SELECTED PUBLICATIONS

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First Author: 1 papers, Accepted: 3 papers, Citation:10

- Multi-schema prompting powered token-feature woven attention network for short text classification  
**Zijing Cai**, Hua Zhang, Peiqian Zhan, Xiaohui Jia, Yongjian Yan, Xiawen Song, Bo Xie.  
(*PR* 2025)
- Reconstructing representations using diffusion models for multimodal sentiment analysis through reading comprehension  
Hua Zhang, Yongjian Yan, **Zijing Cai**, Peiqian Zhan, Bi Chen, Bo Jiang, Bo Xie.  
(*ASOC* 2024)
- RCFIND: Reading Comprehension Powered Semantic Fusion Network for Identification of N-ary Drug Combinations  
Hua Zhang, Peiqian Zhan, Cheng Yang, Yongjian Yan, **Zijing Cai**, Guogen Shan, Bo Jiang, Bi Chen.  
(*EAAI* 2024)

## AWARDS

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- [2022] Zhejiang Provincial Government Scholarship (**Top 5%**)
- [2022] Excellent Student at Zhejiang Gongshang University (**Top 8%**)

## SKILLS

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- **English:** CET6
- **Programming Skills:** Python, Java, HTML
- **Miscs:** Photography, Writing, Cooking