Jun Gao (高俊)

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Natural Language Generation, Multimodal Large Language Model, Efficient LLMs

About Me

My name is Jun Gao (高俊). I will receive my master's degree from Soochow University in the summer of 2025. Now, I am a research assistant working for Prof. Wenjie Li (Maggie) at PolyU. My research interests are focused on **how to prompt LLM efficiently and I want to explore how to make models understand vision and language information faithfully in future research.**

Out of academic research, I am a new hand runner who finished a 10km-marathon under 1h3mins. I am also a Taekwondo practitioner and claimed a silver medal in the Jiangsu provincial championships. Additionally, I am an experienced cyclist who has completed a challenging 255km ride around Lake Taihu for 9 hours.

Education

Institute of Artificial Intelligence, Soochow University   Suzhou, China
Master Student – Software and Engineering   2022 - 2025 *(expected)*
- Advisor: Prof. Ziqiang Cao

School of Electrical Engineering, Sanjiang University   Nanjing, China
Bachelor – Automation   2017 - 2021

Publications

(* DENOTES THE EQUAL CONTRIBUTION)

1. Guiding ChatGPT to Generate Salient Domain Summaries.
   Jun Gao, Ziqiang Cao, Shaoyao Huang, Luozheng Qin, Chunhui Ai. *IJCNN (Oral)*, 2024.

2. Contrastive Learning with High-Quality and Low-Quality Augmented Data for Query-Focused Summarization.
   Shaoyao Huang, Ziqiang Cao, Luozheng Qin, **Jun Gao**, Jun Zhang. *ICASSP (CCF-B)*, 2024.

3. SelfCP: Compressing over-limit prompt via the frozen large language model itself.
   Jun Gao, Ziqiang Cao, Wenjie Li. *Information Processing and Management (*中科院 1 区 *Top, CCF-B)*, 2024.

4. DNTextSpotter: Arbitrary-Shaped Scene Text Spotting via Improved Denoising Training.
   Qian Qiao*, Yu Xie*, **Jun Gao***, Tianxiang Wu, Shaoyao Huang, Jiaqing Fan, Ziqiang Cao, Zili Wang, Yue Zhang. *ACM MM (CCF-A)*, 2024.

5. AIM: Let Any Multi-modal Large Language Models Embrace Efficient In-Context Learning.
   Jun Gao, Qian Qiao, Ziqiang Cao, Zili Wang, Wenjie Li. *(Submitted to AAAI 2025)*.

6. Unifying Demonstration Selection and Compression for In-Context Learning.
   Jun Gao, Ziqiang Cao, Wenjie Li. *(Re-submitted to ARR Aug)*.

Patents

CN117271780A (First Student Inventor)

A Method and System for Context Compression Based on the Large Language Model Itself

Internships

Hong Kong Polytechnic University | Research Assistant
Supervisor: Wenjie Li   2024.07 - Present
- Lead the exploration of prompting large models with multimodal Chain-of-Thought.
- Prepare reports and presentations summarizing research findings.

LINGCHEN TECH. | Engineer Intern   2020. 03 - 2020. 08
- Develop programs to drive motors, robots, industrial cameras, and motion controllers.
- Communicate with colleagues to advance project progress.

SKILLS	**Languages**: Chinese, English.
	Programming: Python, Latex, C/C++, C#.
	Libraries/Frameworks: PyTorch, Transformers, Deepspeed, LlamaIndex, NumPy.

ACADEMIC SERVICES	**Reviewers for Conference**: *ARR Feb/April/June/August 2024, IJCNN*
	Reviewers for Journal: *Information Processing and Managemen*
	Session Chair: *Chairing IJCNN 2024 Large Neural Network Session in Yokohama, Japan*