Shichao Sun （孙世超）

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⌂ https://github.com/ShichaoSun

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Education

2020 – Aug. 2024 (Expected)	**PhD, The Hong Kong Polytechnic University, Hong Kong** Research on Text Summarization, RAG and LLMs Supervisor: Prof. Wenjie Li Co-Advisor: Assoc. Prof. Pengfei Liu (During visiting Shanghai Jiao Tong University)
Sep. 2017 – Jan. 2020	**Master, Fudan University, China** Research on Math Reasoning and Tree-structured Decoding Supervisor: Assoc. Prof. Zhipeng Xie
Sep. 2013 – Jun. 2017	**Bachelor, Fudan University, China**

Research Publications

1. **Sun**, **S.**, Li, J., Yuan, W., Yuan, R., Li, W., & Liu, P. (2024). The Critique of Critique. In *Findings of annual meeting of the Association for Computational Linguistics (ACL 2024)*.

2. **Sun**, **S.**, Yuan, R., Cao, Z., Li, W., & Liu, P. (2024). Prompt Chaining or Stepwise Prompt? Refinement in Text Summarization. In *Findings of annual meeting of the Association for Computational Linguistics (ACL 2024)*.

3. Li, J., Zhou, F., **Sun**, **S.**, Zhang, Y., Zhao, H., & Liu, P. (2024). Dissecting Human and LLM Preferences. In *Annual meeting of the Association for Computational Linguistics (ACL 2024)*.

4. Li, J., **Sun**, **S.**, Yuan, W., Fan, R.-Z., Zhao, H., & Liu, P. (2024). Generative Judge for Evaluating Alignment. In *International Conference on Learning Representations (ICLR 2024)*.

5. **Sun**, **S.**, Yuan, R., Li, W., Cao, Z., & Li, S. (2024). Dialogue acts enhanced extract–abstract framework for meeting summarization. In *Information Processing & Management (IPM 2024)*.

6. He, J., **Sun**, **S.**, Peng, S., Xu, J., Jia, X., & Li, W. (2024). Contrastive Preference Learning for Neural Machine Translation. In *Annual conference of the North American chapter of the Association for Computational linguistics (NAACL 2024)*.

7. Wang, J., Wang, H., **Sun**, **S.**, & Li, W. (2023). Aligning Language Models with Human Preferences via a Bayesian Approach. In *Advances in Neural Information Processing Systems (NEURIPS 2023)*.

8   **Sun**, **S.**, Yuan, R., He, J., Cao, Z., Li, W., & Jia, X. (2023). Data Selection Curriculum for Abstractive Text Summarization. In *Findings of Empirical Methods in Natural Language Processing (EMNLP 2023)*.

9   Yuan, R., **Sun**, **S.**, Wang, Z., Cao, Z., & Li, W. (2023). Separating Context and Pattern: Learning Disentangled Sentence Representations for Low-Resource Extractive Summarization. In *Findings of annual meeting of the Association for Computational Linguistics (ACL 2023)*.

10   **Sun**, **S.**, Yuan, R., Li, W., & Li, S. (2023). Improving Sentence Similarity Estimation for Unsupervised Extractive Summarization. In *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2023)*.

11   Wang, C., Liu, L., **Sun**, **S.**, & Wang, W. (2022). Rethinking the framework constructed by counterfactual functional model. In *Applied intelligence*.

12   **Sun**, **S.** & Li, W. (2021). Alleviating Exposure Bias via Contrastive Learning for Abstractive Text Summarization. In *ArXiv 2021*.

13   Xie, Z. & **Sun**, **S.** (2019). A Goal-Driven Tree-Structured Neural Model for Math Word Problems. In *International Joint Conferences on Artificial Intelligence (IJCAI 2019)*.

14   **Sun**, **S.** & Xie, Z. (2017). BiLSTM-Based Models for Metaphor Detection. In *National CCF Conference on Natural Language Processing and Chinese Computing (NLPCC 2017)*.

Project

2024.02 – now	**SciRAG** – Retrieval-Augmented Generation for Science Based on arXiv corpus, answer the research question Support multiple retrievers: BM25, Dense Retrieval, ReRank Framework: LlamaIndex, Ollama, vllm, Streamlit
2023.05 – 2023.12	**MetaCritique** – The Critique of Critique Construct prompts to reliably evaluate the quality of critique
2023.05 – 2023.11	**Auto-J** – Generative Judge for Evaluating Alignment Fine-tune LLaMA 2 to evaluate the alignment of LLMs

Horners

2020	**Excellent Graduates in Shanghai**.
2019	**National Scholarship**.
2018	**Excellent Student** in Fudan University.
	Scholarship for Outstanding Students in Fudan University.
2014, 2015, 2016	**National Encouragement Scholarship**.