

Shichao Sun (孙世超)

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🌐 <https://github.com/ShichaoSun>

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Employment History

Sep. 2024 – Present 📚 **Applied Scientist**, AWS Shanghai AI Lab

Education

Sep. 2020 – Aug. 2024 📚 **Ph.D., The Hong Kong Polytechnic University**

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**

Research on Math Reasoning and Tree-structured Decoding

Supervisor: Assoc. Prof. Zhipeng Xie

Sep. 2013 – Jun. 2017 📚 **Bachelor, Fudan University**

Research Publications

- 1 Zheng, Y., **Sun, S.**, Qiu, L., Ru, D., Jiayang, C., Li, X., ..., Pan, R. et al. (2024). Openresearcher: Unleashing AI for Accelerated Scientific Research. In *ArXiv 2024*.
- 2 **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)*.
- 3 **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)*.
- 4 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)*.
- 5 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)*.
- 6 **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)*.

- 7 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)*.
- 8 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)*.
- 9 **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)*.
- 10 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)*.
- 11 **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)*.
- 12 Wang, C., Liu, L., **Sun, S.**, & Wang, W. (2022). Rethinking the framework constructed by counterfactual functional model. In *Applied intelligence*.
- 13 **Sun, S.** & Li, W. (2021). Alleviating Exposure Bias via Contrastive Learning for Abstractive Text Summarization. In *ArXiv 2021*.
- 14 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)*.
- 15 **Sun, S.** & Xie, Z. (2017). BiLSTM-Based Models for Metaphor Detection. In *National CCF Conference on Natural Language Processing and Chinese Computing (NLPCC 2017)*.

Honors

- 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.**

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工作经历

2024 年 9 月 – 至今 📚 Applied Scientist, AWS Shanghai AI Lab

教育经历

- 2020 年 9 月 – 2024 年 8 月 📚 博士, 香港理工大学
方向: 文本摘要、大语言模型、检索增强生成
导师: 李文捷 教授
合作导师: 刘鹏飞 副教授 (上海交通大学)
- 2017 年 9 月 – 2020 年 1 月 📚 硕士, 复旦大学
方向: 数学应用题解题、树形解码器
导师: 谢志鹏 副教授
- 2013 年 9 月 – 2017 年 6 月 📚 学士, 复旦大学

研究成果

- ① Zheng, Y., **Sun, S.**, Qiu, L., Ru, D., Jiayang, C., Li, X., Lin, J., Wang, B., Luo, Y., Pan, R., et al. (2024). Openresearcher: Unleashing AI for Accelerated Scientific Research. *arXiv 2024*.
- ② **Sun, S.**, Li, J., Yuan, W., Yuan, R., Li, W., & Liu, P. (2024). The Critique of Critique. *Findings of Annual Meeting of the Association for Computational Linguistics (ACL 2024)*.
- ③ **Sun, S.**, Yuan, R., Cao, Z., Li, W., & Liu, P. (2024). Prompt Chaining or Stepwise Prompt? Refinement in Text Summarization. *Findings of Annual Meeting of the Association for Computational Linguistics (ACL 2024)*.
- ④ Li, J., Zhou, F., **Sun, S.**, Zhang, Y., Zhao, H., & Liu, P. (2024). Dissecting Human and LLM Preferences. *Annual Meeting of the Association for Computational Linguistics (ACL 2024)*.
- ⑤ Li, J., **Sun, S.**, Yuan, W., Fan, R.-Z., Zhao, H., & Liu, P. (2024). Generative Judge for Evaluating Alignment. *International Conference on Learning Representations (ICLR 2024)*.
- ⑥ **Sun, S.**, Yuan, R., Li, W., Cao, Z., & Li, S. (2024). Dialogue acts enhanced extract–abstract framework for meeting summarization. *Information Processing & Management (IPM 2024)*.

- 7 He, J., Sun, S., Peng, S., Xu, J., Jia, X., & Li, W. (2024). Contrastive Preference Learning for Neural Machine Translation. *Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2024)*.
- 8 Wang, J., Wang, H., Sun, S., & Li, W. (2023). Aligning Language Models with Human Preferences via a Bayesian Approach. *Advances in Neural Information Processing Systems (NEURIPS 2023)*.
- 9 Sun, S., Yuan, R., He, J., Cao, Z., Li, W., & Jia, X. (2023). Data Selection Curriculum for Abstractive Text Summarization. *Findings of Empirical Methods in Natural Language Processing (EMNLP 2023)*.
- 10 Yuan, R., Sun, S., Wang, Z., Cao, Z., & Li, W. (2023). Separating Context and Pattern: Learning Disentangled Sentence Representations for Low-Resource Extractive Summarization. *Findings of Annual Meeting of the Association for Computational Linguistics (ACL 2023)*.
- 11 Sun, S., Yuan, R., Li, W., & Li, S. (2023). Improving Sentence Similarity Estimation for Unsupervised Extractive Summarization. *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2023)*.
- 12 Wang, C., Liu, L., Sun, S., & Wang, W. (2022). Rethinking the framework constructed by counterfactual functional model. *Applied Intelligence*.
- 13 Sun, S., & Li, W. (2021). Alleviating Exposure Bias via Contrastive Learning for Abstractive Text Summarization. *arXiv 2021*.
- 14 Xie, Z., & Sun, S. (2019). A Goal-Driven Tree-Structured Neural Model for Math Word Problems. *International Joint Conferences on Artificial Intelligence (IJCAI 2019)*.
- 15 Sun, S., & Xie, Z. (2017). BiLSTM-Based Models for Metaphor Detection. *National CCF Conference on Natural Language Processing and Chinese Computing (NLPCC 2017)*.

获得荣誉

- 2020 ■ 上海市优秀毕业生
- 2019 ■ 国家奖学金
- 2018 ■ 复旦大学优秀学生
■ 硕士学业奖学金一等奖
- 2014,2015,2016 ■ 国家励志奖学金