TAO SHI

Email | Github

EDUCATION

Tsinghua University *Beijing, China*
Master of Science in Engineering in Data Science and Information Technology *09/2021 - 06/2024*
Supervisor: Prof. Shao-Lun Huang
Master's Thesis: Multimodal Deep Learning for Emotion Recognition in Conversations (*2024 Outstanding Master's Thesis Award*)
Cumulative GPA: 3.94/4.00

China University of Mining and Technology (Project 211 University) *Xuzhou, China*
Bachelor of Engineering in Computer Science and Technology *09/2016 - 06/2020*
Bachelor's Thesis: Multimodal Sentiment Analysis in Conversational Videos Based on Recurrent Neural Networks (*2020 Outstanding Bachelor's Thesis Award*)
Cumulative GPA: 87.73/100, Ranking: 21/245

Australian National University *Canberra, Australia*
Non-Award Study Abroad Program *02/2018 - 07/2018*
Funded by China Scholarship Council's Outstanding Undergraduate International Exchange Scholarship
Cumulative GPA: 6.75/7.00

RESEARCH INTERESTS

Natural Language Processing, Multimodal Learning

PUBLICATIONS

* indicates equal contribution

Peer-Reviewed Publications

Tao Shi and Shao-Lun Huang. 2023. MultiEMO: An Attention-Based Correlation-Aware Multimodal Fusion Framework for Emotion Recognition in Conversations. In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 14752–14766, Toronto, Canada. Association for Computational Linguistics. [PDF] [Code]

Xiao Liang*, **Tao Shi***, Yaoyuan Liang, Te Tao, and Shao-Lun Huang. 2024. Exploring Iterative Refinement with Diffusion Models for Video Grounding. In *2024 IEEE International Conference on Multimedia and Expo (ICME)*. IEEE. (Accepted, to be published) [PDF] [Code]

Weida Wang, **Tao Shi**, Yaoyuan Liang, Xinyi Tong, and Shao-Lun Huang. 2024. A Non-Asymptotic Framework for Characterizing Dependency Structures in Multimodal Learning. In *2024 IEEE Information Theory Workshop (IEEE-ITW'24)*. IEEE. (Accepted, to be published) [PDF] [Code]

Under Review

Tao Shi*, Xiao Liang*, Yaoyuan Liang, Xinyi Tong, and Shao-Lun Huang. 2024. SSLCL: An Efficient Model-Agnostic Supervised Contrastive Learning Framework for Emotion Recognition in Conversations. Under Review at *Transactions of the Association for Computational Linguistics (TACL)*. [PDF] [Code]

HONORS & AWARDS

2024 Outstanding Master's Thesis Award, *Tsinghua University* *07/2024*
First-Class Scholarship of Academic Year 2022-2023, *Tsinghua University* *10/2023*

2020 Outstanding Graduate Award, *China University of Mining and Technology* *06/2020*
2020 Outstanding Bachelor's Thesis Award, *China University of Mining and Technology* *06/2020*
First-Class Scholarship of Academic Year 2018-2019, *China University of Mining and Technology* *09/2019*
2017 Outstanding Undergraduate International Exchange Scholarship, *China Scholarship Council* *11/2017*

WORK EXPERIENCE

Teaching Assistant *Beijing, China*
Seminar in Data Science and Information Technology, Tsinghua University *Spring Semesters 2023 and 2024*

ACADEMIC SERVICE

Reviewer of *IEEE Transactions on Affective Computing* *05/2024 - Present*
Reviewer of *Journal of the Franklin Institute* *12/2023 - 03/2024*
Reviewer of *the 2023 Conference on Empirical Methods in Natural Language Processing* *06/2023 - 09/2023*

SKILLS

Languages: Mandarin (native), English (fluent, TOEFL 110)
Programming Languages and Tools: Python, C++, Java, Matlab, Markdown, LaTeX, Git, Vim