Shijue Huang

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Education

Harbin Institute of Technology, Shenzhen   Sep. 2022 – Mar. 2025 (expected)
Postgraduate Student in Computer Science and Technology, GPA: 3.55/4.0   *Shenzhen, China*

Harbin Institute of Technology   Aug. 2018 – Jun. 2022
Bachelor, Computer Science and Technology, Honors School (Elite Class), GPA: 90.485/100   *Harbin, China*

Research Interests

My research interests center on Large Language Models (LLMs) and Natural Language Processing, with a deep passion for tackling key challenges in developing intelligent agents capable of autonomous improvement or evolution. I am particularly interested in the following subfields of LLMs: Self-evolution, Automated Alignment, Planning, and Tool Learning. Additionally, I am also interested in Multi-modal Learning and Reinforcement Learning.

Publications

- **Shijue Huang**, Wanjun Zhong, Jianqiao Lu, Qi Zhu, Jiahui Gao, Weiwen Liu, Yutai Hou, Xingshan Zeng, Yasheng Wang, Lifeng Shang, Xin Jiang, Ruifeng Xu, Qun Liu, Planning, Creation, Usage: Benchmarking LLMs for Comprehensive Tool Utilization in Real-World Complex Scenarios, ACL 2024 (Findings).

- **Shijue Huang**, Libo Qin, Bingbing Wang, Geng Tu, Ruifeng Xu, SDIF-DA: A Shallow-to-Deep Interaction Framework with Data Augmentation for Multi-modal Intent Detection, ICASSP 2024.

- Libo Qin*, **Shijue Huang***, Qiguang Chen, Chenran Cai, Yudi Zhang, Bin Liang, Wanxiang Che, Ruifeng Xu, MMSD2.0: Towards a Reliable Multi-modal Sarcasm Detection System, ACL 2023 (Findings).

- Libo Qin*, **Shijue Huang***, Qiguang Chen, Qian Liu, Wanxiang Che, Ruifeng Xu, MPFToD: A Modularized Pre-training Framework for Consistency Identification in Task-oriented Dialogue, Frontiers of Computer Science.

- Bingbing Wang, **Shijue Huang**, Bin Liang, Geng Tu, Min Yang, Ruifeng Xu, What do they "meme"? A metaphor-aware multi-modal multi-task framework for fine-grained meme understanding, Knowledge-Based Systems.

- Libo Qin, Tianbao Xie, **Shijue Huang**, Qiguang Chen, Xiao Xu, Wanxiang Che, Don't be Contradicted with Anything! CI-ToD: Towards Benchmarking Consistency for Task-oriented Dialogue System, EMNLP 2021.

- **Shijue Huang**, Wanjun Zhong, Deng Cai, Fanqi Wan, Chengyi Wang, Mingxuan Wang, Mu Qiao, Ruifeng Xu, Empowering Self-Learning of LLMs: Inner Knowledge Explicitation as a Catalyst, Under Review, 2024.

- Zexuan Qiu, Jingjing Li, **Shijue Huang**, Wanjun Zhong, Irwin King, CLongEval: A Chinese Benchmark for Evaluating Long-Context Large Language Models, Under Review, 2024.

- Wanjun Zhong, Jianqiao Lu, **Shijue Huang**, Yufei Wang, Zhijiang Guo, Qi Zhu, Wenyong Huang, Yanlin Wang, Fei Mi, Baojun Wang, Yasheng Wang, Lifeng Shang, Xin Jiang, Qun Liu, YODA: Teacher-Student Progressive Learning for Language Models, Under Review, 2024.

Research Experience

ByteDance Doubao (Seed) Team   Jun. 2024 – Present
Research Intern   *Shenzhen, China*
- Focus on Self-Evolution and Automated Alignment of Large Language Models.

Huawei Noah's Ark Lab   Nov. 2023 – May. 2024
Research Intern   *Shenzhen, China*
- Focus on Planning and Tool Learning of Large Language Models.

HLT Lab, Harbin Institute of Technology, Shenzhen   Jul. 2022 – Oct. 2023
Master's Program   *Shenzhen, China*
- Focus on Sentiment Analysis and Multi-modal Learning.

SCIR Research Center, Harbin Institute of Technology   Dec. 2020 – Jun. 2022
Research Intern   *Harbin, China*
- Focus on Spoken Language Understanding in Task-oriented Dialogue System.

Honors and Awards

- National Scholarship, Ministry of Education, China, Dec. 2023.
- 1st place in NLPCC 2023 Shared Task 6, China Computer Federation Technical Committee, Oct. 2023.
- Outstanding Graduates, Harbin Institute of Technology, May. 2022.

Community Work

- Reviewer: ACL, EMNLP, ARR, Knowledge-Based Systems
- Others: Leader of Open Source Working Group and Secretary for NLP Community MLNLP .