

Tian Liang

Institution Intelligent Interaction Group
Tsinghua University

Email liangt21@mails.tsinghua.edu.cn

Personal Profile

I'm currently a final-year master student of Computer Science at Tsinghua University, I received my bachelor degree of engineering from Wuhan University, China. My research interest is mainly about Natural Language Processing sepecially on applying Pre-trained Large Language Models to Reasoning and Multi-Agent Intelligence tasks. I used to work as a research intern and visiting student at Tencent AI Lab, where I have gained rich experience for the research and application of Large Language Models.

Education

Sep 2021-Present Master of Engineering in Computer Science - IIGROUP, Tsinghua University, China
Advisor: Prof. Yujiu Yang

Sep 2017-Jun 2021 Bachelor of Engineering in Automation - Wuhan University, China
Cumulative GPA: 3.7/4.0, top 5%

Publications

1. Encouraging Divergent Thinking in Large Language Models through Multi-Agent Debate
Tian Liang, Zhiwei He, Wenxiang Jiao, Xing Wang, Yan Wang, Rui Wang, Yujiu Yang, Zhaopeng Tu and Shuming Shi
Preprint 2023 (**28 citations on Semantic Scholar, cited by Google DeepMind**)
2. Exploring Human-Like Translation Strategy with Large Language Models
Tian Liang, Zhiwei He, Wenxiang Jiao, Zhuosheng Zhang, Yujiu Yang, Rui Wang, Zhaopeng Tu, Shuming Shi and Xing Wang
Preprint 2023 (**Attracted widespread interest, reported by Maria Stasimioti on Slator**)
3. Leveraging Word Guessing Games to Assess the Intelligence of Large Language Models
Tian Liang, Zhiwei He, Jen-tes Huang, Wenxuan Wang, Wenxiang Jiao, Xing Wang, Rui Wang, Yujiu Yang, Zhaopeng Tu and Shuming Shi
Preprint 2023
4. Addressing Entity Translation Problem via Translation Difficulty and Context Diversity
Tian Liang, Xing Wang, Yujiu Yang, Shuming Shi and Zhaopeng Tu
Preprint 2022
5. ParroT: Translating during Chat using Large Language Models tuned with Human Translation and Feedback
Wenxiang Jiao, Jen-tse Huang, Wenxuan Wang, Zhiwei He, **Tian Liang**, Xing Wang, Shuming Shi and Zhaopeng Tu
In Proceedings of The 2023 Conference on Empirical Methods in Natural Language Processing, **EMNLP 2023 Findings**
6. Acronym extraction with hybrid strategies
Tian Liang, Siheng Li, Cheng Yang, Xinyu Zhu, Chengze Yu and Yujiu Yang
In Proceedings of The Thirty-Sixth AAAI Conference on Artificial Intelligence, **AAAI 2022 Workshop**

7. Multilingual Acronym Disambiguation with Multi-choice Classification

Xinyu Zhu, Chengze Yu, Siheng Li, **Tian Liang**, Cheng Yang and Yujiu Yang

In Proceedings of The Thirty-Sixth AAAI Conference on Artificial Intelligence, **AAAI 2022 Workshop**

Competition

1. Acronym Extraction Task at the Scientific Document Understanding Workshop - AAAI 2022

Rank 2nd of 58 teams

2. Acronym Disambiguation Task at the Scientific Document Understanding Workshop - AAAI 2022

Rank 4th of 44 teams

Research Experiences

MAY 2022- Tencent AI Lab, Shenzhen City, China

Present Visiting Student, Tencent Rhino-Bird Elite Training Program 2022-2023

Software Engineering Skills

■ Programming Languages

Python, C++, C, Java, Javascript, html

■ Machine Learning and Deep Learning

PyTorch, Tensorflow, Scikit-learn

Interests

■ Multi-Agent Intelligence with LLMs

■ AI Safety and Alignment

■ Human-Like Machine Translation

References

Prof. Yujiu Yang

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Tsinghua University

Email: yang.yujiu@sz.tsinghua.edu.cn