Tengxiao Liu

Email: txliu21@m.fudan.edu.cn ☆ *Homepage:* tengxiaoliu.github.io *Contact:* 220 Handan Road, Yangpu District, Shanghai, 200433, China

Education

Fudan University

Sep 2021 - expected Jun 2024

Master of Science, Computer Science

Shanghai, China

Supervisor: Prof. Xipeng Qiu

Xi'an Jiaotong University

Sep 2017 - Jun 2021

Bachelor of Science, Honors Program (Computer Science), Special Gifted Young Program

Xi'an, China

GPA: 91.92/100, Ranking: 2/32

Thesis: QuARE: Question Answering based Joint Entity and Relation Extraction

Jan 2020 - May 2020

University of California, Berkeley *Berkeley International Study Program - Letters & Science (Computer Science)*

Berkeley, US

GPA: 4.0/4.0, Joined Undergraduate Research Apprentice Program (URAP)

Experience

Amazon AWS AI

Mar 2021 - Present

Advisor: Dr. Qipeng Guo, Prof. Yue Zhang, Prof. Zheng Zhang

Shanghai, China

Worked on QA systems and Natural Language Reasoning. Proposed RLET, a reinforcement learning based entailment tree generation framework. Currently I am focusing on reasoning abilities of Large Language Models on math and logical reasoning.

University of California, San Francisco

Advisor: Jae Ho Sohn, MD, MS

Feb 2020 - Mar 2021

San Francisco, US

• Joined Big Data in Radiology lab, proposed Radiology BERT, which can identify speech recognition (SR) errors and suggest corrections in radiology reports.

University of Alberta

Summer 2019

Advisor: Prof. Linglong Kong

Edmonton, Canada

• International Undergraduate Summer Enrichment Program: Excellence

Huawei

Summer 2020

Smart Wearable and Sports Health PDU

Xi'an, China

Huawei Watch GT2-Pro: Big data analysis platform and testing

Publications

 Tengxiao Liu, Qipeng Guo, Yuqing Yang, Xiangkun Hu, Yue Zhang, Xipeng Qiu, Zheng Zhang. Plan, Verify and Switch: Integrated Reasoning with Diverse X-of-Thoughts. EMNLP 2023.

Neurips 2023 MATH-AI workshop.

Kai Lv, Shuo Zhang, Tianle Gu, Shuhao Xing, Jiawei Hong, Keyu Chen, Xiaoran Liu, Yuqing Yang, Honglin Guo, Tengxiao Liu, Yu Sun, Qipeng Guo, Hang Yan, Xipeng Qiu.
 CoLLiE: Collaborative Training of Large Language Models in an Efficient Way.
 EMNLP 2023 demo.

- Tengxiao Liu, Qipeng Guo, Xiangkun Hu, Yue Zhang, Xipeng Qiu, Zheng Zhang.
 RLET: A Reinforcement Learning Based Approach for Explainable QA with Entailment Trees.
 EMNLP 2022.
- Gunvant R. Chaudhari, Tengxiao Liu, Timothy L. Chen, Gabby B. Joseph, Maya Vella, Yoo Jin Lee, Thienkhai H. Vu, Youngho Seo, Andreas M. Rauschecker, Charles E. McCulloch, Jae Ho Sohn. Application of a Domain-specific BERT for Detection of Speech Recognition Errors in Radiology Reports.
 Radiology: Artificiall Intelligence, 2022.
- Kai Lv, Yuqing Yang, **Tengxiao Liu**, Qinghui Gao, Qipeng Guo, Xipeng Qiu. Full Parameter Fine-tuning for Large Language Models with Limited Resources. *Preprint* 2023.

Awards

- Pengkang Scholarship, 2018: Awarded to top 5% overall ranking students in each major.
- Second Prize Scholarship, 2017: Awarded to top 10% overall ranking students in each major.
- Outstanding Students, 2017/2018/2019.
- National Grand Prize (No.1 in Shaanxi Province): 2018 National English Competition for College Students
- National Second Prize, Provincial First Prize: 24th China Daily "21st Century Coca-Cola Cup" National English-Speaking Competition

Skills

- Professional Services: Reviewer for AACL 2022
- Teaching Assistant: Database Systems Designs, Fudan Undergrad Course, Fall 2022
- Language Proficiency: TOEFL 111

Last updated: October 2023