

Tengxiao Liu

Email: txliu21@m.fudan.edu.cn ✨ *Homepage:* tengxiaoliu.github.io

Contact: 220 Handan Road, Yangpu District, Shanghai, 200433, China

Education

Fudan University

Master of Science, Computer Science

Supervisor: Prof. Xipeng Qiu

Sep 2021 - expected Jun 2024

Shanghai, China

Xi'an Jiaotong University

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

GPA: 91.92/100, Ranking: 2/32

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

Sep 2017 - Jun 2021

Xi'an, China

University of California, Berkeley

Berkeley International Study Program - Letters & Science (Computer Science)

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

Jan 2020 - May 2020

Berkeley, US

Experience

Amazon AWS AI

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

Mar 2021 - Present

Shanghai, China

- Worked on building systems that can perform complex reasoning tasks, covering commonsense, 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

Advisor: Prof. Linglong Kong

Summer 2019

Edmonton, Canada

- International Undergraduate Summer Enrichment Program: Excellence

Huawei

Smart Wearable and Sports Health PDU

Summer 2020

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: Artificial 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

- Second Prize Scholarship, Fudan University, 2023
- Academic Excellence Scholarship, Fudan University, 2022
- Pengkang Scholarship, XJTU, 2018: Awarded to top 5% overall ranking students in each major.
- Second Prize Scholarship, XJTU, 2017: Awarded to top 10% overall ranking students in each major.
- Outstanding Students, XJTU, 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 ACL 2022
- **Teaching Assistant:** Database Systems Designs, Fudan Undergrad Course, Fall 2022
- **Language Proficiency:** TOEFL - 111