

Tengxiao Liu

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

Education

Fudan University <i>Master of Science, Computer Science</i> Supervisor: Prof. Xipeng Qiu	Sep 2021 - expected Jun 2024 Shanghai, China
Xi'an Jiaotong University <i>Bachelor of Science, Honors Program (Computer Science)</i> GPA: 91.92/100, Ranking: 2/32 Thesis: <i>QuARE: Question Answering based Joint Entity and Relation Extraction</i>	Sep 2017 - Jun 2021 Xi'an, China
University of California, Berkeley <i>Berkeley International Study Program - Letters & Science (Computer Science)</i> GPA: 4.0/4.0, Joined Undergraduate Research Apprentice Program (URAP)	Jan 2020 - May 2020 Berkeley, US
Xi'an Jiaotong University <i>Honor's Youth Program</i>	Sep 2015 - Jun 2017 Xi'an, China

Experience

Amazon AWS AI <i>Advisor: Dr. Qipeng Guo, Prof. Yue Zhang, Prof. Zheng Zhang</i> <ul style="list-style-type: none">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.	Mar 2021 - Present Shanghai, China
University of California, San Francisco <i>Advisor: Jae Ho Sohn, MD, MS</i> <ul style="list-style-type: none">Joined Big Data in Radiology lab, proposed Radiology BERT, which can identify speech recognition (SR) errors and suggest corrections in radiology reports.	Feb 2020 - Mar 2021 San Francisco, US
University of Alberta <i>Advisor: Prof. Linglong Kong</i> <ul style="list-style-type: none">International Undergraduate Summer Enrichment Program: Excellence	Summer 2019 Edmonton, Canada
Huawei <i>Smart Wearable and Sports Health PDU</i> <ul style="list-style-type: none">Huawei Watch GT2-Pro: Big data analysis platform and testing	Summer 2020 Xi'an, China

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*.
- 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

- 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 ACL 2022
- **Teaching Assistant:** Database Systems Designs, Fudan Undergrad Course, Fall 2022
- **Language Proficiency:** TOEFL - 111