

Tengxiao Liu

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

Education

- Fudan University** Sep 2021 - expected Jun 2024
Master of Science, Computer Science Shanghai, China
Advisor: Prof. Xipeng Qiu
- Xi'an Jiaotong University** Sep 2017 - Jun 2021
Bachelor of Engineering, Honors Program (Computer Science), Special Gifted Young Class Xi'an, China
GPA: 91.92/100, Ranking: 2/32
- University of California, Berkeley** Jan 2020 - May 2020
Berkeley International Study Program (Math & 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
- Research intern. Worked on building systems that can perform complex reasoning tasks, covering commonsense, math, logical and symbolic reasoning.
- University of California, San Francisco** Feb 2020 - Mar 2021
Advisor: Prof. Jae Ho Sohn 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
- Department of Mathematical and Statistical Sciences
 - International Undergraduate Summer Enrichment Program: Excellence

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
- Outstanding Graduate, XJTU, 2021
- Outstanding Students (Dean's List), XJTU, 2018/2019/2020.
- Second Prize Scholarship, XJTU, 2020: Awarded to top 10% overall ranking students in each major.
- Pengkang Scholarship, XJTU, 2018: Awarded to top 5% overall ranking students in each major.
- National Grand Prize (No.1 in Shaanxi Province): 2018 National English Competition for College Students
- National Second Prize, Provincial First Prize: 24th "21st Century Coca-Cola Cup" National English-Speaking Competition, 2019

Skills

- **Professional Services:** Reviewer for ACL 2022, ARR Feb 2024
- **Teaching Assistant:** Database Systems Designs, Fudan Undergrad Course, Fall 2022
- **Language Proficiency:** TOEFL - 111