

Tengxiao Liu

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Education

University of California, Santa Barbara <i>Ph.D., Computer Science</i> Advisor: Prof. William Wang	Sep 2024 - Present <i>Santa Barbara, US</i>
Fudan University <i>Master of Science, Computer Science</i> Advisor: Prof. Xipeng Qiu	Sep 2021 - Jun 2024 <i>Shanghai, China</i>
Xi'an Jiaotong University <i>Bachelor of Engineering, Honors Program (Computer Science), Special Gifted Young Class</i> GPA: 91.92/100, Ranking: 2/32	Sep 2017 - Jun 2021 <i>Xi'an, China</i>
University of California, Berkeley <i>Berkeley International Study Program (Math & Computer Science)</i> GPA: 4.0/4.0, Joined Undergraduate Research Apprentice Program (URAP)	Jan 2020 - May 2020 <i>Berkeley, US</i>

Experience

Amazon AWS AI <i>Advisor: Dr. Qipeng Guo, Prof. Yue Zhang, Prof. Zheng Zhang</i>	Mar 2021 - Aug 2024 <i>Shanghai, China</i>
<ul style="list-style-type: none">Research intern. Worked on building systems that can perform complex reasoning tasks, covering commonsense, math, logical and symbolic reasoning.	
University of California, San Francisco <i>Advisor: Prof. Jae Ho Sohn</i>	Feb 2020 - Mar 2021 <i>San Francisco, US</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.	
University of Alberta <i>Advisor: Prof. Linglong Kong</i>	Summer 2019 <i>Edmonton, Canada</i>
<ul style="list-style-type: none">Department of Mathematical and Statistical SciencesInternational Undergraduate Summer Enrichment Program: Excellence	

Publications

- **Tengxiao Liu**, Qipeng Guo, Xiangkun Hu, Jiayang Cheng, Yue Zhang, Xipeng Qiu, Zheng Zhang. Can Language Models Learn to Skip Steps? *NeurIPS 2024*.
- Jiayang Cheng, Qianqian Zhuang, Chunkit Chan, Lin Qiu, Tianhang Zhang, **Tengxiao Liu**, Yangqiu Song, Yue Zhang, Pengfei Liu, Zheng Zhang. ECON: On the Detection and Resolution of Evidence Conflicts. *EMNLP 2024*.
- Qin Zhu, Qinyuan Cheng, Runyu Peng, Xiaonan Li, Ru Peng, **Tengxiao Liu**, Xipeng Qiu, Xuanjing Huang.

Inference-Time Decontamination: Reusing Leaked Benchmarks for Large Language Model Evaluation.

EMNLP 2024 findings.

- Kai Lv, Yuqing Yang, **Tengxiao Liu**, Qinghui Gao, Qipeng Guo, Xipeng Qiu.
Full Parameter Fine-tuning for Large Language Models with Limited Resources.
ACL 2024 oral.
- **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.

Awards

- Shanghai Outstanding Graduate, Shanghai, 2024
- 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.
- Pengkang Scholarship, XJTU, 2018: Awarded to top 5% overall ranking students in each major.
- National Grand Prize, 2018: National English Competition for College Students
- National Prize, Provincial First Prize, 2019: “21st Century” National English-Speaking Competition

Skills

- **Professional Services:** Reviewer for ICML'25, ICLR'25, ARR'25, NeurIPS'24, ARR'24
- **Teaching Assistant:** Database Systems Designs, Fudan Undergrad Course, Fall 2022
- **Language Proficiency:** TOEFL - 113 (S:29)