# Tengxiao Liu

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## Education

University of California, Santa Barbara

Sep 2024 - Present

Ph.D., Computer Science

Santa Barbara, US

Advisor: Prof. William Wang

**Fudan University** 

Sep 2021 - 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 - Aug 2024

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, 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: Artificiall 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: 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, 2018: National English Competition for College Students
- National Prize, Provincial First Prize, 2019: "21st Century" National English-Speaking Competition

#### Skills

- Professional Services: Reviewer for AACL 2022, ARR 2024 (Feb, Jun), NeurIPS 2024
- Teaching Assistant: Database Systems Designs, Fudan Undergrad Course, Fall 2022
- Language Proficiency: TOEFL 111

Last updated: September 2024