Curriculum Vitae - Mian Zhang

Contact Information

The University of Texas at Dallas
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Education

The University of Texas at Dallas — *2024 - present*
- Ph.D. in Computer Science — *Dallas, TX, USA*
- Advisor: Zhiyu Zoey Chen

Virginia Tech (transferred out) — *2023 - 2024*
- Ph.D. in Computer Science — *Blacksburg, VA, USA*

Soochow University — *2020 - 2023*
- M.S. in Computer Science — *Suzhou, Jiangsu, China*
- Advisors: Wenliang Chen, Xiabing Zhou
- Outstanding Graduate; Outstanding Thesis

Nanjing University of Posts and Telecommunications — *2016 - 2020*
- B.Eng. in Computer Science — *Nanjing, Jiangsu, China*
- GPA: 3.96 / 5 (Top 3% in the Department)

Research Interests

My current research focuses on enhancing large language models (LLMs) for social good, with an emphasis on health-related domains. I am actively working on post-training techniques and synthetic data generation to equip LLMs with complex and reliable abilities. Besides, I am interested in language agents and vision LLMs.

Papers

(*denotes equal contribution)

1. CBT-Bench: Evaluating Large Language Models on Assisting Cognitive Behavior Therapy (*Preprint*)
   Mian Zhang*, Xianjun Yang*, Xinlu Zhang, Travis Labrum, Jamie C. Chiu, Shaun M. Eack, Fei Fang, William Yang Wang, Zhiyu Chen.
2. IDEA: Enhancing the Rule Learning Ability of Large Language Model Agent through Induction, Deduction, and Abduction (*Preprint*)
   Kaiyu He, **Mian Zhang**, Shuo Yan, Peilin Wu, Zhiyu Zoey Chen.
3. Large Language Models for Disease Diagnosis: A Scoping Review (*Preprint*)
   Shuang Zhou*, Zidu Xu*, **Mian Zhang***, Chunpu Xu*, Yawen Guo, Zaifu Zhan, Sirui Ding, Jiashuo Wang, Kaishuai Xu, Yi Fang, Liqiao Xia, Jeremy Yeung, Daochen Zha, Mingquan Lin, Rui Zhang.
4. Inconsistent dialogue responses and how to recover from them (*EACL 2024*)
   Mian Zhang, Lifeng Jin, Linfeng Song, Haitao Mi, Dong Yu.
5. SafeConv: Explaining and Correcting Conversational Unsafe Bahavior (*ACL 2023 Oral*)
   Mian Zhang, Lifeng Jin, Linfeng Song, Haitao Mi, Wenliang Chen, Dong Yu.

6. Friend-training: Learning from Different but Related Tasks (*EACL 2023*)
   Mian Zhang, Lifeng Jin, Linfeng Song, Haitao Mi, Xiabing Zhou, Dong Yu.
7. Emotion Recognition in Conversation from Variable-Length Context (*ICASSP 2023*)
   Mian Zhang, Xiabing Zhou, Wenliang Chen, Min Zhang.
8. A Pairing Enhancement Approach for Aspect Sentiment Triplet Extraction (*KSEM 2023*)
   Fang Yang, **Mian Zhang**, Gongzhen Hu, Xiabing Zhou.

Research Experiences

Human Language Technology Research Institute at UTD — *Sep. 2024 - present*
Student Researcher (Advisor: Zhiyu Zoey Chen) — *Dallas, TX*

Tencent AI Lab — *May. 2024 - Jul. 2024*
Research Intern (Mentors: Haitao Mi, Linfeng Song) — *Seattle, WA*

Tencent AI Lab — *Dec. 2021 - Dec. 2022*
Research Intern (Mentor: Lifeng Jin) — *Shenzhen, China*

Institute of Human Language Technology at Soochow University — *Sep. 2020 - Jul. 2021*
Student Researcher (Advisors: Wenliang Chen, Xiabing Zhou) — *Suzhou, China*

Selected Awards

Outstanding Master's Thesis	*2024*
Outstanding Graduate Award at Soochow University	*2023*
First-class Scholarship at Soochow University	*2020 - 2021*
Principal's Award	*2019*
CUMCM National First Prize (top 1%)	*2018*
First-class Scholarship at NJUPT	*2017 - 2019*

Teaching Experience

Human Language Technologies (CS4395) at UTD (*Teaching Assistant*)	*Fall, 2024*
Data Structures and Algorithms (CS3114) at VT (*Teaching Assistant*)	*Spring, 2024*
Intermediate Programming in Python (CS2064) at VT (*Teaching Assistant*)	*Fall, 2023*

Services

Reviewer: EMNLP 2022, ACL2023, ACL Rolling Review

Secondary Reviewer: EMNLP 2021, AAAI 2022, COLING 2022

Skills

Programming Language: Python, C/C++, Shell, LaTeX, Matlab

Machine Learning Framework: PyTorch, NumPy, Transformers, Scikit-learn

Tool & Software: Vim, Git, pdb, Matplotlib, Pandas

Natural Language: Mandarin (native), English (advanced)