Fanqi Wan

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Education

Sun Yat-sen University, School of Computer Science and Technology

Master student in Computer Science and Technology, supervised by Prof. Xiaojun Quan.   09/2022 - Present

- Research Interests: Dialog Systems; Instruction-Tuning; Model Fusion.

Xi'an Jiaotong University, School of Electronic Information

Bachelor of Electronic Information Engineering, supervised by Prof. Hongqiang Lv.   09/2018 - 06/2022

- Overall Percentage: 93/100
- Rank: 10/180

Publications

My main research interests focused on deep learning for natural language generation. Previously, my work primarily focused on *dialogue systems*. After the emergence of large language models (LLMs), my research direction shifted towards *instruction-tuning* (e.g., developing LLMs for specific domains, mitigating hallucinations of LLMs) and *model fusion* (e.g., combining the capabilities of multiple structurally diverse LLMs).

Conference Papers

1. **Fanqi Wan**, Xinting Huang, Leyang Cui, Xiaojun Quan, Wei Bi, Shuming Shi, Mitigating Hallucinations of Large Language Models via Knowledge Consistent Alignment, ***ACL 2024***, Under Review, work in progress.

2. **Fanqi Wan**, Xinting Huang, Deng Cai, Xiaojun Quan, Wei Bi, Shuming Shi, Knowledge Fusion of Large Language Models, ***ICLR 2024***, Poster, accepted.

3. **Fanqi Wan**, Xinting Huang, Tao Yang, Xiaojun Quan, Wei Bi, Shuming Shi, Explore-Instruct: Enhancing Domain-Specific Instruction Coverage through Active Exploration, ***EMNLP 2023***, Main Conference, accepted.

4. Weizhou Shen, Yingqi Gao, Canbin Huang, **Fanqi Wan**, Xiaojun Quan, Wei Bi, Retrieval-Generation Alignment for End-to-End Task-Oriented Dialogue System, ***EMNLP 2023***, Main Conference, accepted.

5. Tao Yang, Tianyuan Shi, **Fanqi Wan**, Xiaojun Quan, Qifan Wang, Bingzhe Wu, Jiaxiang Wu, PsyCoT: Psychological Questionnaire as Powerful Chain-of-Thought for Personality Detection, ***EMNLP 2023***, Findings, accepted.

6. **Fanqi Wan**, Weizhou Shen, Ke Yang, Xiaojun Quan, Wei Bi, Multi-Grained Knowledge Retrieval for End-to-End Task-Oriented Dialog, ***ACL 2023***, Main Conference, accepted.

7. Jinghao Deng, **Fanqi Wan**, Tao Yang, Xiaojun Quan, Rui Wang, Clustering-Aware Negative Sampling for Unsupervised Sentence Representation, ***ACL 2023***, Main Conference, accepted.

Professional Experience

Research Intern at Natural Language Processing Center, Tencent AI Lab

Instruction-tuning and model fusion of LLMs, supervised by Dr. Xinting Huang and Dr. Wei Bi. 03/2023 - Present

- Honor: **Outstanding Award** for 2022 Tencent AI Lab Rhino-Bird Focused Research Program

Commercial Projects on E-Commerce Platforms, Vipshop

Emotional analysis of comments on e-commerce platforms, supervised by Dr. Rui Wang.   04/2022 - 01/2023

Academic Competitions

2022 Xingzhi Cup

3nd/???? on Deep Learning Model Interpretability Task.   08/2022 - 02/2023

2022 IFLYTEK AI Developer Competition

2nd/1414 on Text Classification and Question Answering Based on Paper Abstracts Task.   07/2022 - 10/2022

2022 Ali Lingjie E-commerce Search Algorithm Competition

4nd/2711 on 2022 Ali Lingjie E-commerce Search Algorithm Competition.   03/2022 - 06/2022

Selected Awards

Excellent Graduate Students

Received excellent graduate students award at Xi'an Jiaotong University.   09/2018 - 06/2022

National Scholarship

Received national scholarship at Xi'an Jiaotong University.   09/2018 - 06/2019