

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).

MODEL FUSION

1. **Fanqi Wan**, Ziyi Yang, Longguang Zhong, Xiaojun Quan, Xinting Huang, Wei Bi, FuseChat: Knowledge Fusion of Chat Models, *Tech Report*.
2. **Fanqi Wan**, Xinting Huang, Deng Cai, Xiaojun Quan, Wei Bi, Shuming Shi, Knowledge Fusion of Large Language Models, *ICLR 2024*, Poster.

INSTRUCTION-TUNING

1. **Fanqi Wan**, Xinting Huang, Leyang Cui, Xiaojun Quan, Wei Bi, Shuming Shi, Knowledge Verification to Nip Hallucination in the Bud, *ACL 2024*, Under Review.
2. **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.

DIALOGUE SYSTEMS

1. 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.
2. **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.

MISC.

1. 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.
2. Jinghao Deng, **Fanqi Wan**, Tao Yang, Xiaojun Quan, Rui Wang, Clustering-Aware Negative Sampling for Unsupervised Sentence Representation, *ACL 2023*, Main Conference.

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

3rd/???? 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