

# FANQI WAN

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## EDUCATION

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### 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

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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*, Findings.

## PROFESSIONAL EXPERIENCE

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### 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

### 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

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### 2023 XINGZHI CUP

**2nd Prize** on Deep Learning Model Interpretability Task. 08/2022 - 02/2023

### 2022 IFLYTEK AI DEVELOPER COMPETITION

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

### 2022 ALI LINGJIE E-COMMERCE SEARCH ALGORITHM COMPETITION

**3rd Prize** on 2022 Ali Lingjie E-commerce Search Algorithm Competition. 03/2022 - 06/2022

## SELECTED AWARDS

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### OUTSTANDING AWARD

Received outstanding award for Tencent AI Lab Rhino-Bird Focused Research Program. 09/2022 - 09/2023

### 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