# Jian Wang

Department of Computing, The Hong Kong Polytechnic University

✉ jwanglvy@gmail.com    ☐ (+852) 5332 5143
🌐 Homepage: https://iwangjian.github.io

## EDUCATION

**The Hong Kong Polytechnic University (PolyU)**                    **Hong Kong, China**
*PhD in Computer Science*                                           *2021/09 – Present*
○ **Supervisor**: Prof. Maggie Wenjie Li
○ **Research Interests**: Natural Language Processing (NLP), Dialogue Systems, Conversational AI

**South China University of Technology (SCUT)**                     **Guangzhou, China**
*MSc in Computer Science and Technology*                            *2017/09 – 2020/06*

**South China University of Technology (SCUT)**                     **Guangzhou, China**
*BEng in Computer Science and Engineering*                          *2013/09 – 2017/06*
*BEc in Finance* (*Minor degree*)

## PUBLICATIONS

○ **Jian Wang**, Dongding Lin, and Wenjie Li. 2023. Dialogue Planning via Brownian Bridge Stochastic Process for Goal-directed Proactive Dialogue. In *Findings of the Association for Computational Linguistics: ACL 2023*.

○ Kaishuai Xu, Wenjun Hou, Yi Cheng, **Jian Wang**, and Wenjie Li. 2023. Medical Dialogue Generation via Dual Flow Modeling. In *Findings of the Association for Computational Linguistics: ACL 2023*.

○ **Jian Wang**, Dongding Lin, and Wenjie Li. 2023. A Target-Driven Planning Approach for Goal-Directed Dialog Systems. *IEEE Transactions on Neural Networks and Learning Systems*.

○ Dongding Lin\*, **Jian Wang**\*, and Wenjie Li. 2023. COLA: Improving Conversational Recommender Systems by Collaborative Augmentation. In *Proceedings of the 37th AAAI conference on Artificial Intelligence* (*AAAI-23*). (\*: Equal contribution)

○ **Jian Wang** and Wenjie Li. 2021. Template-guided Clarifying Question Generation for Web Search Clarification. In *Proceedings of the 30th ACM International Conference on Information & Knowledge Management* (*CIKM'21*).

○ Dongding Lin, **Jian Wang**, and Wenjie Li. 2021. Target-guided Knowledge-aware Recommendation Dialogue System: An Empirical Investigation. In *Proceedings of the Joint KaRS & ComplexRec Workshop @ RecSys 2021*.

○ **Jian Wang**, Junhao Liu, Wei Bi, Xiaojiang Liu, Kejing He, Ruifeng Xu, and Min Yang. 2020. Dual Dynamic Memory Network for End-to-End Multi-turn Task-oriented Dialog Systems. In *Proceedings of the 28th International Conference on Computational Linguistics* (*COLING*).

○ **Jian Wang**, Junhao Liu, Wei Bi, Xiaojiang Liu, Kejing He, Ruifeng Xu, and Min Yang. 2020. Improving Knowledge-Aware Dialogue Generation via Knowledge Base Question Answering. In *Proceedings of the 34th AAAI Conference on Artificial Intelligence* (*AAAI-20*).

○ **Jian Wang**, Kejing He, and Min Yang. 2020. Topic Discovery by Spectral Decomposition and Clustering with Coordinated Global and Local Contexts. *International Journal of Machine Learning and Cybernetics* (*JMLC*).

## INTERN & VISITING EXPERIENCES

**The Hong Kong Polytechnic University**                          **Hong Kong, China**
*Research Assistant*                                                  *2020/11 – 2021/08*
- Advisor: Prof. Maggie Wenjie Li
- Worked on Web search clarification and recommendation-oriented dialogue

**Rulai Inc.**                                             **Campbell, CA, USA (Remotely)**
*Research Intern*                                                   *2020/07 – 2020/10*
- Advisor: Dr. Yi Zhang
- Worked on Text-to-SQL for task-oriented QA systems

**SIAT, Chinese Academy of Sciences**                              **Shenzhen, China**
*Visiting Student*                                                   *2018/08 – 2019/09*
- Advisor: Prof. Min Yang
- Worked on knowledge-grounded and task-oriented dialogue generation

## PROJECTS

**"Smart Space" for Coffee Break**                                        *2022/06*
- An intelligent demo for coffee breaks based on vision, language, and robotics techniques (@ COMP, PolyU)
- Focus on building dialogue agents for human-robot conversations

**Multi-skill Dialogue Generation**                                       *2021/05*
- 2021 Language and Intelligence Challenge: Track 2 (Hosted by Baidu)
- Focus on dialogue modeling with multiple skills (knowledge grounding, persona, and recommendation)

**Automatic Title Generation for News Articles**                           *2018/12*
- Byte Cup 2018 International Machine Learning Contest (Hosted by ByteDance)
- Focus on document summarization with a hybrid extractive-abstractive approach

## HONORS & AWARDS

- Third Prize of 2021 Baidu Language and Intelligence Challenge                  2021
- AAAI 2020 Student Scholarship                                                 2020
- First Class of Academic Scholarship at SCUT                              2018, 2017
- Third Prize of Byte Cup 2018 International Machine Learning Contest             2018
- Global Ranking of 50/2121 on IEEE Xtreme 11.0 Programming Competition          2017
- National Scholarship (**Top 1%**, the highest scholarship for undergraduates)  2016
- Bronze Medal of 2016 HUAWEI Code Craft (Shenzhen Area Site)                    2016
- National Encouragement Scholarship                                       2015, 2014
- Merit Student of SCUT & Outstanding Student Leader of SCUT-CS            2015, 2014

## TEACHING EXPERIENCES

- COMP 6709: Advanced Natural Language Processing, TA, PolyU         Spring 2023, 2022
- COMP 2021: Object-Oriented Programming, TA, PolyU                   Fall 2022, 2021
- Design and Analysis of Algorithms, TA, SCUT                           Spring, 2018
- Advanced Programming Language (C++), TA, SCUT                            Fall, 2017

## PROFESSIONAL ACTIVITIES

- Conference Reviewer: ACL (2023), EMNLP (2022, 2023), COLING (2020, 2022)

# TECHNICAL SKILLS

- Coding: Python, C/C++, Java, Shell, SQL, Html, CSS, JavaScript
- Tools: PyTorch, Tensorflow, Git, Docker, LaTeX, Markdown, Vim