Jian Wang

- PQ719, Department of Computing, The Hong Kong Polytechnic University
- https://github.com/iwangjian
- https://iwangjian.github.io/

Research Interests

- Natural Language Processing (NLP) and Machine Learning (ML);
- Building practical and intelligent **dialogue systems**;
- Developing effective and fundamental methods for **natural language generation**

Education

2021/09 – Present Ph.D. in Computer Science

The Hong Kong Polytechnic University (PolyU), Hong Kong

Advisor: Prof. Maggie Wenjie Li

2017/09 − 2020/06 **M.Eng. in Computer Technology**

South China University of Technology (SCUT), Guangzhou

Advisor: Prof. Kejing He

2013/09 – 2017/06 ■ B.Eng. in Computer Science and Engineering (Major) GPA: 3.74/4.0

South China University of Technology (SCUT), Guangzhou

B.Ec. in Finance (Minor)

South China University of Technology (SCUT), Guangzhou

Experiences

2020/11 − 2021/08 **The Hong Kong Polytechnic University**, Research Assistant

Advisor: Prof. Maggie Wenjie Li

Working on Web search clarification and recommendation dialogue systems.

2020/07 - 2020/10 Rula

Rulai Inc., Research Intern

Advisor: Dr. Yi Zhang

Working on Text-to-SQL to improve product query under e-commerce chatbots.

2018/08 - 2019/09

■ SIAT, Chinese Academy of Sciences, Visiting Student

Advisor: Prof. Min Yang

Working on knowledge-aware dialogue generation.

Publications

Conference Proceedings

Lin, D., **Wang**, J., & Li, W. (2021). Target-guided Knowledge-aware Recommendation Dialogue System: An Empirical Investigation. In 3rd Knowledge-aware and Conversational Recommender Systems (KaRS) Workshop @ RecSys 2021.

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

Wang, J., Liu, J., Bi, W., Liu, X., He, K., Xu, R., & Yang, M. (2020a). 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'20)* (pp. 4100–4110).

Wang, J., Liu, J., Bi, W., Liu, X., He, K., Xu, R., & Yang, M. (2020b). Improving Knowledge-aware Dialogue Generation via Knowledge Base Question Answering. In *Proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI'20)* (pp. 9169–9176).

Journal Articles

Cai, Z., **Wang**, **J.**, & He, K. (2020). Adaptive Density-based Spatial Clustering for Massive Data Analysis. *IEEE Access*, 8, 23346–23358.

Wang, **J.**, He, K., & Yang, M. (2020). Topic Discovery by Spectral Decomposition and Clustering with Coordinated Global and Local Contexts. *International Journal of Machine Learning and Cybernetics* (*JMLC*), 2475–2487.

Projects

2021/	05	Multi-skill Dialogue Generation	: Baidu Language and	l Intelligence Challenge	- Track 2
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2021/04 Medical Conversational QA System: A demo developed at PolyU

2020/10 Pipelined Text-to-SQL Service: A demo developed at Rulai Inc.

2019/03 PyLoader: An open-source asynchronous Python data loader for loading big datasets

2018/12 News Title Generation: Byte Cup 2018 International Machine Learning Contest

Honors and Awards

2021	Third Prize of 202	a Baidu Language	and Intelligence	Challenge: Mu	lti-skill Dialogue
2021	I mrd Prize of 202	n baidu Language	and intelligence	Chanenge: Mu	iu-skili Diai

2020 AAAI 2020 Student Scholarship

2018, 2017 First Class of Academic Scholarship at SCUT

2018 Third Prize of Byte Cup 2018 International Machine Learning Contest

2017 Ranked 50th Worldwide on IEEE Xtreme 11.0 Programming Competition

2016 National Scholarship (**Top 1**%, the highest national wide scholarship for undergraduates)

■ Shenzhen Area Site Bronze Medal of 2016 HUAWEI Code Craft

2015, 2014 National Encouragement Scholarship (**Top 10%**)

■ Merit Student of SCUT & Outstanding Student Leader of SCUT-CS

Teaching Experiences

2021 Fall COMP 2021: Object-Oriented Programming, Teaching Assistant, PolyU

2018 Spring Design and Analysis of Algorithm, Teaching Assistant, SCUT

2017 Fall Advanced Language Program Design (C++), Teaching Assistant, SCUT

Technical Skills

Coding C/C++, Python, Java, Shell, SQL, HTML, Css, JavaScript

Tools Tensorflow, PyTorch, Git, Docker, Matlab

Editing LaTeX, Markdown, Vim