

Zhiyuan Wen

Postdoctoral Fellow, working with [Prof. Jiannong Cao](#)
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WORKING EXPERIENCE

2024.2-2025.1	Postdoctoral Fellow, Department of Computing, The Hong Kong Polytechnic University, Hong Kong, China
2018.1-2018.5	Research and Development Engineer, Reliability Group, 2012 Lab, Huawei Technologies Co., Ltd., Shenzhen, China
2017.4-2017.9	Research Student, WeiXin Group, Tencent Holdings Ltd., Guangzhou, China

EDUCATIONAL BACKGROUND

2018.9-2024.1	Ph.D. in Computer Science, The Hong Kong Polytechnic University, Hong Kong, China Thesis: Comprehending and Reflecting Personality in Dialog Systems Supervisor: Prof. Jiannong Cao , IEEE Fellow
2021.9-2022.3	Visiting Student at THUNLP Lab, Tsinghua University, Beijing, China Supervisor: Prof. Maosong Sun , ACL Fellow
2013.9-2017.6	B.E. on Information Security, Sun Yat-sen University (SYSU), Guangzhou, China

RESEARCH INTERESTS

Conversational AI, Personality and Emotion in Dialog Systems, Summarization, Large Language Models

SELECTED PUBLICATIONS

Journal Articles

TOIS	Zhiyuan Wen , Jiannong Cao, Jiaxing Shen, Yang Ruosong, Shuaiqi Liu, and Sun Maosong. "Personality-affected Emotion Generation in Dialog Systems." In: <i>ACM Transactions on Information Systems</i> (2024)
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IP&M	Shuaiqi Liu, Jiannong Cao, Yicong Li, Ruosong Yang, and Zhiyuan Wen* . “Low-resource court judgment summarization for common law systems.” In: <i>Information Processing & Management</i> 61.5 (2024). * indicates the corresponding author, p. 103796. ISSN: 0306-4573
TKDE	Shuaiqi Liu, Jiannong Cao, Zhongfen Deng, Wenting Zhao, Ruosong Yang, Zhiyuan Wen , and S Yu Philip. “Neural Abstractive Summarization for Long Text and Multiple Tables.” In: <i>IEEE Transactions on Knowledge and Data Engineering</i> (2023)
IP&M	Zhiyuan Wen , Jiannong Cao, Yu Yang, Haoli Wang, Ruosong Yang, and Shuaiqi Liu. “DesPrompt: Personality-descriptive prompt tuning for few-shot personality recognition.” In: <i>Information Processing & Management</i> 60.5 (2023), p. 103422
IP&M	Shuaiqi Liu, Jiannong Cao, Ruosong Yang, and Zhiyuan Wen . “Key phrase aware transformer for abstractive summarization.” In: <i>Information Processing & Management</i> 59.3 (2022), p. 102913
WWWJ	Ruosong Yang, Jiannong Cao, Zhiyuan Wen , and Jiaxing Shen. “Automated post scoring: evaluating posts with topics and quoted posts in online forum.” In: <i>World Wide Web</i> 25.3 (2022), pp. 1197–1221
TSE	Cuiyun Gao, Jichuan Zeng, Zhiyuan Wen , David Lo, Xin Xia, Irwin King, and Michael R Lyu. “Emerging app issue identification via online joint sentiment-topic tracing.” In: <i>IEEE Transactions on Software Engineering</i> 48.8 (2021), pp. 3025–3043
TNNLS	Fanghua Ye, Chuan Chen, Zhiyuan Wen , Zibin Zheng, Wuhui Chen, and Yuren Zhou. “Homophily preserving community detection.” In: <i>IEEE Transactions on Neural Networks and Learning Systems</i> 31.8 (2019), pp. 2903–2915
Conference Proceedings	
PerCom’ 24	Zhiyuan Wen , Jiannong Cao, Yu Yang, Ruosong Yang, and Shuaiqi Liu. “Affective-NLI: Towards Accurate and Interpretable Personality Recognition in Conversation.” In: <i>Proceedings of IEEE International Conference on Pervasive Computing and Communications</i> . IEEE, 2024
EMNLP’ 22(Findings)	Shuaiqi Liu, Jiannong Cao, Ruosong Yang, and Zhiyuan Wen . “Long Text and Multi-Table Summarization: Dataset and Method.” In: <i>Findings of the Association for Computational Linguistics: EMNLP 2022</i> . 2022, pp. 1995–2010
IJCAI’ 22	Shuaiqi Liu, Jiannong Cao, Ruosong Yang, and Zhiyuan Wen . “Generating a Structured

- Summary of Numerous Academic Papers: Dataset and Method.” In: *Proceedings of the Thirty-First International Joint Conference on Artificial Intelligence*. 2023, pp. 4259–4265
- ACL’ 21(Findings) **Wen, Zhiyuan**, Jiannong Cao, Ruosong Yang, Shuaiqi Liu, and Jiaxing Shen. “Automatically select emotion for response via personality-affected emotion transition.” In: (2021), pp. 5010–5020
- ACL’ 21(Findings) Shuaiqi Liu, Jiannong Cao, Ruosong Yang, and **Zhiyuan Wen**. “Highlight-transformer: Leveraging key phrase aware attention to improve abstractive multi-document summarization.” In: *Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021*. 2021, pp. 5021–5027
- DASFAA’ 20 Yang, Yu*, **Zhiyuan Wen***, Jiannong Cao, Jiaxing Shen, Hongzhi Yin, and Xiaofang Zhou. “EPARS: Early prediction of at-risk students with online and offline learning behaviors.” In: *Database Systems for Advanced Applications: 25th International Conference, DASFAA 2020, Jeju, South Korea, September 24–27, 2020, Proceedings, Part II 25*. * indicates equal contribution. Springer. 2020, pp. 3–19
- EMNLP’ 20(Findings) Ruosong Yang, Jiannong Cao, **Zhiyuan Wen**, Youzheng Wu, and Xiaodong He. “Enhancing automated essay scoring performance via cohesion measurement and combination of regression and ranking.” In: *Findings of the 2020 Conference on Empirical Methods in Natural Language Processing*. 2020, pp. 1560–1569
- ICBL’ 20 Yu Yang, Jiannong Cao, Jiaxing Shen, Ruosong Yang, and **Zhiyuan Wen**. “Learning analytics based on multilayer behavior fusion.” In: *Blended Learning. Education in a Smart Learning Environment: 13th International Conference, ICBL 2020, Bangkok, Thailand, August 24–27, 2020, Proceedings 13*. Springer. 2020, pp. 15–24
- LREC’20 **Wen, Zhiyuan**, Jiannong Cao, Ruosong Yang, and Senzhang Wang. “Decode with template: Content preserving sentiment transfer.” In: *Proceedings of the Twelfth Language Resources and Evaluation Conference*. 2020, pp. 4671–4679
- LREC’20 Ruosong Yang, Jiannong Cao, and **Zhiyuan Wen**. “GGP: Glossary Guided Post-processing for Word Embedding Learning.” In: *Proceedings of the Twelfth Language Resources and Evaluation Conference*. 2020, pp. 4726–4730
- APSEC’ 18 Qi Xie, **Zhiyuan Wen**, Jieming Zhu, Cuiyun Gao, and Zibin Zheng. “Detecting duplicate bug reports with convolutional neural networks.” In: *2018 25th Asia-Pacific Software Engineering Conference (APSEC)*. IEEE. 2018, pp. 416–425

Preprints

arxiv'24

Wen, Zhiyuan, Yu Yang, Jiannong Cao, Haoming Sun, Ruosong Yang, and Shuaiqi Liu.
“Self-assessment, Exhibition, and Recognition: a Review of Personality in Large Language Models.” In: *arXiv preprint arXiv:2406.17624* (2024)

TEACHING

2024 Spring

Guest Lecturer, Data Analysis based on Text Inputs 2 ([Slide](#)),
COMP 5152: Advanced Data Analytics, PolyU

2021 Spring

Teaching Assistant, COMP4146: Computational Finance, PolyU

2020 Spring

Teaching Assistant, COMPI0111: Programming Fundamentals, PolyU

2019 Spring

Teaching Assistant, COMP4133: Information Retrieval, PolyU

2018,19,20 Fall

Teaching Assistant, COMP3011: Design and Analysis of Algorithms, PolyU

SERVICE

Academic Journal and Conference Peer Review

ARR, WWW' 2025 (PC Member), IJCAI'19, AAAI'19, BigData'19, ACM Computing Surveys, IP & M

SELECTED AWARDS AND HONORS

2023

Best Presentation Award at PolyU Research Student Conference

SKILLS

Programming

Python, C/C++, LaTex, Matlab

Web

HTML, CSS, Javascript, Django, Flask, Bootstrap, PHP

Deep Learning

PyTorch, Huggingface