Zhiyuan Wen

Postdoctoral Fellow, working with Prof. Jiannong Cao Department of Computing The Hong Kong Polytechnic University (PolyU)

EDUCATIONAL BACKGROUND

2018.9-2023.12 Ph.D. in Computer Science, The Hong Kong Polytechnic University, Hong Kong, China

Thesis: Comprehending and Reflecting Personality in Dialog Systems

Phone: +852 5960 2238

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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

PUBLICATIONS

Journal Articles

TOIS Wen, Zhiyuan, Jiannong Cao, Jiaxing Shen, Yang Ruosong, Shuaiqi Liu, and

Sun Maosong. "Personality-affected Emotion Generation in Dialog Systems." In: ACM

Transactions on Information Systems **Just Accepted** (2024)

TKDE Shuaiqi Liu, Jiannong Cao, Zhongfen Deng, Wenting Zhao, Ruosong Yang,

Wen, Zhiyuan, and S Yu Philip. "Neural Abstractive Summarization for Long Text and Multiple Tables." In: *IEEE Transactions on Knowledge and Data Engineering* (2023)

IP&M Wen, Zhiyuan, Jiannong Cao, Yu Yang, Haoli Wang, Ruosong Yang, and Shuaiqi Liu.

"DesPrompt: Personality-descriptive prompt tuning for few-shot personality recognition." In: *Information Processing & Management* 60.5 (2023), p. 103422

IP&M Shuaiqi Liu, Jiannong Cao, Ruosong Yang, and **Wen, Zhiyuan**. "Key phrase aware

transformer for abstractive summarization." In: Information Processing & Management

59.3 (2022), p. 102913

WWWJ Ruosong Yang, Jiannong Cao, **Wen, Zhiyuan**, and Jiaxing Shen. "Automated post

scoring: evaluating posts with topics and quoted posts in online forum." In: World Wide

Web 25.3 (2022), pp. 1197–1221

TSE Cuiyun Gao, Jichuan Zeng, **Wen, Zhiyuan**, David Lo, Xin Xia, Irwin King, and

Michael R Lyu. "Emerging app issue identification via online joint sentiment-topic tracing." In: *IEEE Transactions on Software Engineering* 48.8 (2021), pp. 3025–3043

TNNLS Fanghua Ye, Chuan Chen, **Wen, Zhiyuan**, Zibin Zheng, Wuhui Chen, and Yuren Zhou.

"Homophily preserving community detection." In: IEEE Transactions on Neural

Networks and Learning Systems 31.8 (2019), pp. 2903–2915

Conference Proceedings

PerCom' 24 Wen, Zhiyuan, Jiannong Cao, Yu Yang, Ruosong Yang, and Shuaiqi Liu.

"Affective-NLI: Towards Accurate and Interpretable Personality Recognition in

Conversation." In: Proceedings of IEEE International Conference on Pervasive Computing

and Communications. IEEE, 2024

EMNLP' 22(Findings) Shuaiqi Liu, Jiannong Cao, Ruosong Yang, and Wen, Zhiyuan. "Long Text and

Multi-Table Summarization: Dataset and Method." In: Findings of the Association for

Computational Linguistics: EMNLP 2022. 2022, pp. 1995–2010

IJCAI' 22 Shuaiqi Liu, Jiannong Cao, Ruosong Yang, and **Wen, Zhiyuan**. "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: Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021. 2021,

pp. 5010-5020

ACL' 21(Findings) Shuaiqi Liu, Jiannong Cao, Ruosong Yang, and Wen, Zhiyuan. "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*, **Wen, Zhiyuan***, 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, Wen, Zhiyuan, 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 **Wen, Zhiyuan**. "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 Wen, Zhiyuan. "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, **Wen, Zhiyuan**, 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

AWARDS AND HONORS

2023 Best Presentation Award at PolyU Research Student Conference

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, COMP1011: 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

ACL, EMNLP, NAACL, IJCAI'19, AAAI'19, BigData'19

ACM Computing Surveys

Information Processing and Mangement

INTERNSHIP

2016.9-2017.12 Research assistant at InplusLab, SYSU, Guangzhou, China

Supervisor: Prof. Zibin Zheng, IEEE Fellow

2018.1-2018.5 R & D Intern in Reliability Group, 2012 Lab, Huawei, Shenzhen, China

Mentor: Dr. Jieming Zhu

2017.4-2017.9 Research Student in Weixin Group, Tencent, Guangzhou, China

SKILLS

Programming Python, C/C++, C#, Java, JS, LaTex, Matlab

Web Django, Flask, Bootstrap

Deep Learning PyTorch