# 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

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

Maosong Sun. "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,

**Zhiyuan Wen**, and S Yu Philip. "Neural Abstractive Summarization for Long Text and Multiple Tables." In: *IEEE Transactions on Knowledge and Data Engineering* (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: *Information Processing & Management* 60.5 (2023), p. 103422

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

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

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: World Wide

Web 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

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

tracing." In: IEEE Transactions on Software Engineering 48.8 (2021), pp. 3025–3043

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

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

# **Conference Proceedings**

**TNNLS** 

PerCom' 24 **Zhiyuan Wen**, 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 Just Accepted. IEEE, 2024

EMNLP' 22(Findings) Shuaiqi Liu, Jiannong Cao, Ruosong Yang, and Zhiyuan Wen. "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 **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) **Zhiyuan Wen**, 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 **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(Findings) Yu, Yang\*, **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 **Zhiyuan Wen**, 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

#### **AWARDS AND HONORS**

Best Presentation Award at PolyU Research Student Conference, PolyU

2015 Yingcai Scholarship, SYSU

2015 Second-class Scholarship, SYSU

2014 Third-class Scholarship, SYSU

## **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, Scrapy, C/C++, JS, LaTex, Matlab

Web Django, Flask, BootStrap, Php

Deep Learning PyTorch