

Wenjun Hou (Ethan)

The Hong Kong Polytechnic University & Southern University of Science and Technology

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EDUCATION

The Hong Kong Polytechnic University (PolyU)

Hong Kong, China

Southern University of Science and Technology (SUSTech)

Shenzhen, China

Ph.D. Candidate in Computer Science

2021/09 – 2025/08 (Excepted)

- **Supervisor:** Prof. Maggie, Wenjie Li (PolyU) & Prof. Jiang Liu (SUSTech)
- **Research Interests:** Natural Language Processing, Multimodal Learning

China Agricultural University (CAU)

Beijing, China

MEng in Computer Science and Technology

2017/09 – 2020/06

Guangdong University of Technology (GDUT)

Guangzhou, China

BEng in Computer Science and Technology

2013/09 – 2017/06

RESEARCH INTERESTS

- **Multimodal Learning:** Radiology Report Generation, Medical VQA
- **Natural Language Processing:** Medical Dialogue Systems

PUBLICATIONS

(*indicates equal contribution)

Major Publications

- **Wenjun Hou**, Yi Cheng*, Kaishuai Xu*, Yan Hu, Wenjie Li, and Jiang Liu. 2024. ICon: Improving Inter-Report Consistency in Radiology Report Generation via Lesion-aware Mixup Augmentation. In *Findings of the Association for Computational Linguistics: EMNLP 2024 (EMNLP'24 Findings)*.
- **Wenjun Hou**, Yi Cheng*, Kaishuai Xu*, Wenjie Li, and Jiang Liu. 2023. RECAP: Towards Precise Radiology Report Generation via Dynamic Disease Progression Reasoning. In *Findings of the Association for Computational Linguistics: EMNLP 2023 (EMNLP'23 Findings)*.
- **Wenjun Hou**, Kaishuai Xu*, Yi Cheng*, Wenjie Li, and Jiang Liu. 2023. ORGAN: Observation-Guided Radiology Report Generation via Tree Reasoning. In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (ACL'23)*.
- Ying Chen, **Wenjun Hou**, Shoushan Li, Caicong Wu, and Xiaoqiang Zhang. 2020. End-to-End Emotion-Cause Pair Extraction with Graph Convolutional Network. In *Proceedings of the 28th International Conference on Computational Linguistics (COLING'20)*.
- Ying Chen, **Wenjun Hou**, Xiyao Cheng, and Shoushan Li. 2018. Joint Learning for Emotion Classification and Emotion Cause Detection. In *Proceedings of the 2018 Conference on Empirical Methods in Natural Language Processing (EMNLP'18)*.

Other Publications

- Kaishuai Xu, Yi Cheng*, **Wenjun Hou***, Qiaoyu Tan, Wenjie Li. 2024. Reasoning Like a Doctor: Improving Medical Dialogue Systems via Diagnostic Reasoning Process Alignment. In *Findings of the Association for Computational Linguistics: ACL 2024 (ACL'24 Findings)*.

- 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 (ACL'23 Findings)*.

PREPRINTS

(*indicates equal contribution)

- Yi Cheng, Wenge Liu, Kaishuai Xu, **Wenjun Hou**, Yi Ouyang, Chak Tou Leong, Xian Wu, Yefeng Zheng. 2024. Evolving to be Your Soulmate: Personalized Dialogue Agents with Dynamically Adapted Personas. *arXiv:2406.13960*.
- Kaishuai Xu, **Wenjun Hou***, Yi Cheng*, Jian Wang, Wenjie Li. 2024. Medical Dialogue Generation via Intuitive-then-Analytical Differential Diagnosis. *arXiv:2401.06541*.

RESEARCH EXPERIENCES

Towards Clinically Precise, Accurate, and Consistent Radiology Report Generation **PolyU**
Ph.D. Student 2022/07 – 2024/02

- Proposed an observation-guided report generation framework, aiming to improve the accuracy of generated reports (ORGAN@ACL'23).
- Introduced attribute modeling with spatial and temporal information for precise report generation (RECAP@EMNLP'23 Findings).
- Designed evaluation metrics to measure the inter-report consistency and proposed a lesion-aware mixup for consistent report generation (ICON@EMNLP'24 Findings).

Multimodal LLMs for Medical VQA **SUSTech**
Ph.D. Student 2023/09 – Present
 Ongoing

Emotion and Cause Analysis **CAU**
Master Student 2017/09 – 2020/06

- Proposed a joint framework for emotion classification and emotion cause detection (EMNLP'18).
- Devised a PairGCN for emotion-cause pair extraction with GCN for dependency modeling (PairGCN@COLING'20).

HONORS & AWARDS

- National Scholarship for Graduates at CAU 2018
- First Class of Academic Scholarship at CAU 2018
- First Class of Academic Scholarship at GDUT 2016
- Third Class of Academic Scholarship at GDUT 2015

PROFESSIONAL ACTIVITIES

Conference Reviewer

- EMNLP Industry (2024), ACL ARR (2024), EMNLP (2023, 2022), COLING (2025, 2024, 2022)

Teaching Assistant

- COMP4424 Extended Reality: Theory and Practice, TA, PolyU Spring 2023
- COMP2S01 Technology Beyond Borders: Service Learning Across Cultural, Ethnic and Community Lines, TA, PolyU Fall 2021, Spring & Fall 2022
- Computational Methods, TA, CAU Fall 2019

TECHNICAL SKILLS

- Coding: Python, C/C++, Java, Shell, SQL, HTML, CSS, JavaScript
- Tools: PyTorch, Tensorflow, Git, L^AT_EX, Markdown, Vim
- Langs: Mandarin, Cantonese, English