

Ye Wang

<https://wangye0523.github.io/>

EMPLOYMENT

Associate Professor, School of Artificial Intelligence, Chongqing University of Posts and Telecommunications (CQUPT), Chongqing, China, 2026–present

Assistant Professor, School of Computer Science and Technology, CQUPT, Chongqing, China, 2020–2025

Project Manager (on secondment), China Scholarship Council, Beijing, China, 2020–2021

Industry Internships: Samsung Research America (2019); T-Mobile USA (2013).

EDUCATION

Ph.D., Computer Engineering, Texas A&M University, 2019

M.S., Electrical Engineering, The University of Texas at Dallas, 2014

B.Eng., Microelectronics, Chongqing University of Posts and Telecommunications, 2011

RESEARCH AWARDS

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| 2026 | Spotlight Paper, International Conference on Machine Learning (ICML), Top 2.2% [1]. |
| 2026 | Best Student Paper Award, 2026 International Conference on Neural Computing for Advanced Applications (NCAA) [18]. |
| 2024 | Best Conference Paper, International Conference on Brain Informatics [14]. |
| 2024 | Outstanding Individual in International Student Education, Chongqing. |
| 2023 | Best Paper Candidate, IEEE ISPCE-ASIA [15]. |

TEACHING HONORS

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| 2025 | Course Leader, <i>Data Structures for International Students</i> , designated as a Chongqing Municipal First-Class Undergraduate Course. |
| 2024 | Award for Outstanding Contribution to International Student Education in Chongqing. |
| 2023 | Outstanding Advisor, National Finals of the RoboCom Robot Developer Competition. |

RESEARCH FUNDING

PRINCIPAL INVESTIGATOR

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| 2024–2026 | National Natural Science Foundation of China, Young Scientists Fund (No. 62306056). |
| 2022–2023 | Chongqing Returned Overseas Scholars Innovation and Entrepreneurship Support Program. |
| 2021–2024 | Science and Technology Research Program of Chongqing Municipal Education Commission (No. KJQN202100629). |

SERVICE

Professional Society Service: Committee Member, CAAI Technical Committee on Granular Computing and Knowledge Discovery; Corresponding Member, CAAI Technical Committee on Artificial Intelligence Foundations.

Editorial Service: Young Editorial Board Member, CAAI Transactions on Intelligent Systems.

Conference Organization: Organizer and Session Chair, Mesoscopic Cognitive Machine Learning Workshop, IJCRS 2026; Competition Chair, NCAA, 2023–2026; Web Chair, IEEE MedAI 2024.

ADVISING

CURRENT STUDENTS

Ph.D. Students: Zixuan Wu; Xuyang Zhou (direct-entry Ph.D. student).

M.S. Students: Maocai Dai[1]; Hongbing Chen; Jie Yang; Yahui Lei; Siyi Liu; Haokun Ren; Hao You; Jie Tang; Jun Hu; Jingying Peng; Gezhong Cao; Tingting Lei [18]; Jiayi Qiu; Qingbin Su; Zhiyu Zhou; Mingyue Wang; Haiyan She; Jinhang Yao.

Undergraduate Students: Xinzhe Wang; Yi Huang; Ruizhe Kang.

FORMER M.S. STUDENTS

Xiaolin Zhou (2026); Now: Project Manager, China Tower; research on multimodal sarcasm understanding.

Pan Sun (2026); Now: Big Data Engineer, Bambu Lab; research on causal modeling for face age synthesis [2].

Zixuan Wu (2025); Now: Ph.D. student@CQUPT; research on uncertainty-aware learning for sequence classification [5].

Wei Zhang (2025); Now: Ph.D. student@South China University of Technology; research on multimodal emotion understanding [3].

Yongliang Yang (2025); Now: Software Engineer, Tencent PCG.

Xinyang Li (2025); Now: Software Engineer, Changan Automobile; research on entity reasoning for multi-turn medical dialogue generation [6].

Qingyan Wang (2025); Now: Algorithm Engineer, Zhihu; research on generative feature learning for medical text classification [9].

Jiancheng Zhou (2025); Now: Software Engineer, Mashang Consumer Finance; research on visual evidence-grounded hallucination rectification in video captioning [4].

Daitianxia Li (2024); Now: Lecturer, Chongqing City Management College; research on self-supervised and multi-granularity image captioning.

Qi Wei (2024); Now: IT Consulting Engineer, Guangdong Telecom Planning and Design Institute; research on Chinese clinical named entity recognition [7].

Zheng Wang (2024); Now: Software Engineer, Enmotech; research on character- and lexical-level representation for Chinese named entity recognition [12].

Jingbo Liao (2023); Now: Software Engineer, Alibaba; research on interpretable and diverse open-domain dialogue generation.

Qianmengke Zhao (2023); Now: Software Engineer, Chongqing Rural Commercial Bank; research on knowledge-guided facial attribute editing [8].

Wenkang Lu (2023); Now: Algorithm Engineer, Changan Technology.

UNDERGRADUATE ADVISEES

Jie Wei (2026); M.S. student at City University of Hong Kong.

Wenqi Dong (2026); M.S. student at the University of Hong Kong; [A8].

Xuyang Zhou (2025); Direct-entry Ph.D. student at CQUPT; research on spatio-temporal action understanding [10]; [A1], [A2].

Zhuoyi Yu (2025); M.S. student at the University of Electronic Science and Technology of China; [A9], [A2].

Tingting Lei (2025); M.S. student at CQUPT.

Guanmeng Xian (2024); M.S. student at Sichuan University; [A4], [A5].

Maocai Dai (2024); M.S. student at CQUPT; research on conflict-aware image aesthetic assessment [1]; [A3].

Qi Cheng (2023); M.S. student at the University of Michigan, Ann Arbor.

Dongyu Xie (2023); M.S. student at the University of Electronic Science and Technology of China; [A6], [A7].

Xinyi Gao (2023); M.S. student at the University of Rochester.

SELECTED STUDENT AWARDS

[A1] National Third Prize, 19th Challenge Cup National College Students' Extracurricular Academic Science and Technology Contest, 2025.

[A2] CQUPT Outstanding Undergraduate Thesis Awards, 2025.

[A3] National Third Prize, RoboCom Robot Developer Competition, 2024.

[A4] Outstanding Undergraduate Thesis of Chongqing, 2024.

[A5] National Undergraduate Innovation and Entrepreneurship Training Program, rated Outstanding upon completion, 2024.

[A6] Second Prize, Mathematical Contest in Modeling, 2023.

[A7] CQUPT Outstanding Undergraduate Thesis Award, 2023.

[A8] National First Prize, Math China Mathematical Modeling Competition, 2023.

[A9] National Second Prize, China College Students' Service Outsourcing Innovation and Entrepreneurship

TEACHING EXPERIENCE

CHONGQING UNIVERSITY OF POSTS AND TELECOMMUNICATIONS (CQUPT)

Instructor, Natural Language Processing, Fall 2024, Fall 2025

Instructor, AI Literacy and Practice: From Fundamentals to DeepSeek Applications, Spring 2025, Fall 2025

Instructor, Algorithm Analysis and Design for International Students, Fall 2025

Instructor, Data Structures for International Students, Spring 2023, Spring 2025

Instructor, Fundamentals of Data Mining, Spring 2022, Fall 2024

Instructor, Machine Learning Models and Algorithms, Fall 2022

Instructor, Principles of Artificial Intelligence, Fall 2020

Instructor, Data Mining, Fall 2022

Instructor, Big Data Analytics and Mining, Fall 2023, Fall 2024

TEXAS A&M UNIVERSITY

Teaching Assistant, ECEN 651: Microprogrammed Control of Digital Systems, Fall 2014, Spring 2015

Teaching Assistant, ECEN 350: Computer Architecture, Spring 2015, Fall 2017, Fall 2018, Spring 2019

Teaching Assistant, ECEN 214: Electrical Circuit Theory, Spring 2016

REPRESENTATIVE PUBLICATIONS

- [1] Ye Wang, Maocai Dai, Jiang Xie, Xiuli Bi, Fei Tao, Xiao Li, and Hong Yu. When Attributes Disagree: Gradient Conflict in Image Aesthetic Assessment. *International Conference on Machine Learning (ICML)*. Spotlight (Top 2.2%). 2026.
- [2] Ye Wang, Pan Sun, Xuyang Zhou, Lifeng Shen, Jiaxu Leng, Guoyin Wang, and Hong Yu. Hierarchical Causal Learning for Face Age Synthesis. *IEEE Transactions on Image Processing* (2026).
- [3] Ye Wang, Wei Zhang, Ke Liu, Wei Wu, Feng Hu, Hong Yu, and Guoyin Wang. Dynamic Emotion-Dependent Network with Relational Subgraph Interaction for Multimodal Emotion Recognition. *IEEE Transactions on Affective Computing* (2025).
- [4] Ye Wang, Jiancheng Zhou, Qun Liu, Feng Hu, and Guoyin Wang. Visual Evidence-Aware Object Hallucination Rectification in LLM-Based Video Captioning. *IEEE Transactions on Circuits and Systems for Video Technology* (2026).
- [5] Ye Wang, Zixuan Wu, Lifeng Shen, Jiang Xie, Xiaoling Wang, Hong Yu, and Guoyin Wang. Mastering the Minority: An Uncertainty-Guided Multi-Expert Framework for Challenging-Tailed Sequence Learning. *IEEE Transactions on Audio, Speech, and Language Processing* (2026).
- [6] Ye Wang, Xinyang Li, Hong Yu, Feng Hu, Guoyin Wang, and Dajiang Lei. Continuous Entity Reasoning for Multi-Turn Medical Dialogue Generation. *IEEE Transactions on Consumer Electronics* (2025).
- [7] Ye Wang, Qi Wei, Hong Yu, Guoyin Wang, Chunmeng Shi, and Dajiang Lei. Cross-Interaction of Chinese Character Structures and Boundary Features for Improving Clinical Named Entity Recognition. *IEEE Journal of Biomedical and Health Informatics* (2025).
- [8] Ye Wang, Qianmengke Zhao, Qun Liu, Guoyin Wang, Hong Yu, Li Liu, and Jiaxu Leng. KDDGAN: Knowledge-Guided Explicit Feature Disentanglement for Facial Attribute Editing. *IEEE Transactions on Consumer Electronics* (2024).
- [9] Ye Wang, Qingyan Wang, Hong Yu, Jiang Xie, Feng Hu, Xiaoling Wang, and Dajiang Lei. GCFA: Generative Class Feature Fusion with Agent Attention for Medical Text Classification. *Information Fusion* (2026).
- [10] Xuyang Zhou, Ye Wang*, Fei Tao, Hong Yu, and Qun Liu. Hierarchical Chat-Based Strategies with MLLMs for Spatio-Temporal Action Detection. *Information Processing & Management* (2025).
- [11] Ye Wang, Xinxiang Zhang, Mi Lu, Han Wang, and Yoonsuck Choe. Attention Augmentation with Multi-Residual in Bidirectional LSTM. *Neurocomputing* (2020).
- [12] Ye Wang, Zheng Wang, Hong Yu, Guoyin Wang, and Dajiang Lei. The Interactive Fusion of Characters and Lexical Information for Chinese Named Entity Recognition. *Artificial Intelligence Review* (2024).

- [13] Wenbo Wu, Qingyi Si, Xiurui Pan, Ye Wang, and Jie Zhang. LouisKV: Efficient KV Cache Retrieval for Long Input-Output Sequences. *International Conference on Learning Representations (ICLR)*. 2026.
- [14] Yan Xian, Hong Yu, Ye Wang, and Guoyin Wang. A Novel Class Incremental Learning Method via Multi-Granularity Balance Inspired by Human Granular Cognition Mechanism. *International Conference on Brain Informatics*. Best Conference Paper. 2024.
- [15] Xinqiang Jiang, Yingnan Geng, Yinzhou Xiong, Fei Tao, and Ye Wang*. A Privacy-Aware Framework for Assessing and Recommending Short Video Advertisement. *IEEE International Symposium on Product Compliance Engineering - Asia (ISPCE-ASIA)*. Best Paper Candidate. 2023.
- [16] Jiaxu Leng and Ye Wang*. RCNet: Recurrent Collaboration Network Guided by Facial Priors for Face Super-Resolution. *IEEE International Conference on Multimedia and Expo (ICME)*. 2022.
- [17] Ye Wang, Han Wang, Xinxiang Zhang, Theodora Chaspari, Yoonsuck Choe, and Mi Lu. An Attention-Aware Bidirectional Multi-Residual Recurrent Neural Network: A Study on Short-Term Text Classification. *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. 2019.
- [18] Tingting Lei, Yifan Zhu, Runxi Zhang, Feng Hu, Hong Yu, and Ye Wang*. NLG-Gen: Natural Language-Guided Generation of Long-Tail Critical Scenarios for Autonomous Driving. *2026 International Conference on Neural Computing for Advanced Applications (NCAA)*. Best Student Paper Award. Osaka, Japan, 2026.

COLLABORATIVE PUBLICATIONS

- [19] Chenrui Ma, Yuxin Ding, Haijun Zhang, Jianghong Ma, Zhao Zhang, Ye Wang, and Fei Tao. Fine-Grained Offline Ranking for Short Video Advertisements CTR via Visual- and Audio-Based Features. *IEEE Transactions on Consumer Electronics* (2025).
- [20] Kangjia He, Li Liu, Youmin Zhang, Ye Wang, Qun Liu, and Guoyin Wang. Learning Counterfactual Explanation of Graph Neural Networks via Generative Flow Network. *IEEE Transactions on Artificial Intelligence* (2024).
- [21] Jiaxu Leng, Haitao Wang, Xinbo Gao, Yan Zhang, Ye Wang, and Mengjingcheng Mo. Where to Look: Multi-Granularity Occlusion Aware for Video Person Re-Identification. *Neurocomputing* (2023).
- [22] Li Liu, Yong Du, Ye Wang, William K. Cheung, Youmin Zhang, Qun Liu, and Guoyin Wang. LRP2A: Layer-Wise Relevance Propagation Based Adversarial Attacking for Graph Neural Networks. *Knowledge-Based Systems* (2022).
- [23] Jiaxu Leng, Yihui Ren, Wen Jiang, Xiaoding Sun, and Ye Wang. Realize Your Surroundings: Exploiting Context Information for Small Object Detection. *Neurocomputing* (2021).
- [24] Zhuoyi Yu, Guanmeng Xian, Qianmengke Zhao, Hong Yu, Xiao Li, and Ye Wang*. Multi-Task Learning with Hierarchical Feature Disentanglement for Low-Exposure Facial Recognition in Smart Cockpits. *Neural Computing and Applications* (2026).
- [25] Yan Xian, Hong Yu, Ye Wang, and Guoyin Wang. Exploring Multi-Granularity Balance Strategy for Class Incremental Learning via Three-Way Granular Computing. *Brain Informatics* (2025).
- [26] Zixuan Wu, Ye Wang, Lifeng Shen, Feng Hu, and Hong Yu. Leveraging Uncertainty for Depth-Aware Hierarchical Text Classification. *Computers, Materials & Continua* (2024).
- [27] Hong Yu, Jinxuan Tang, Zhihan Peng, and Ye Wang. Relation Correlations-Aware Graph Convolutional Network with Text-Enhanced for Knowledge Graph Embedding. *International Journal of Machine Learning and Cybernetics* (2024).
- [28] Ye Wang, Daitianxia Li, Qun Liu, Li Liu, and Guoyin Wang. Self-Supervised Modal Optimization Transformer for Image Captioning. *Neural Computing and Applications* (2024).
- [29] Youmin Zhang, Lei Sun, Ye Wang*, Qun Liu, and Li Liu. One-Shot Knowledge Graph Completion Based on Disentangled Representation Learning. *Neural Computing and Applications* (2024).
- [30] Xu Xiang, Hong Yu, Ye Wang, and Guoyin Wang. Stable Local Interpretable Model-Agnostic Explanations Based on a Variational Autoencoder. *Applied Intelligence* (2023).
- [31] Ye Wang, Jingbo Liao, Hong Yu, Guoyin Wang, Xiaoxia Zhang, and Li Liu. Interpreting Open-Domain Dialogue Generation by Disentangling Latent Feature Representations. *Neural Computing and Applications* (2023).

- [32] Xiaoxia Zhang, Lu Chen, Ye Wang, and Guoyin Wang. Improving Incremental Nonnegative Matrix Factorization Method for Recommendations Based on Three-Way Decision Making. *Cognitive Computation* (2022).
- [33] Ye Wang, Jingbo Liao, Hong Yu, and Jiaxu Leng. Semantic-Aware Conditional Variational Autoencoder for One-to-Many Dialogue Generation. *Neural Computing and Applications* (2022).
- [34] Pan Sun, Hong Yu, Jiang Xie, Jiaxu Leng, and Ye Wang. Explicit Facial Attribute Disentanglement for Hierarchical Relationships Detection. *International Conference on Neural Computing for Advanced Applications (NCAA)*. 2024.
- [35] Shijie Sun, Hanyue Liu, Ye Wang, and Hong Yu. Lung Cancer Risk Prediction Model Trained with Multi-Source Data. *International Joint Conference on Rough Sets (IJCRS)*. 2024.
- [36] Yali Wang, Ye Wang, Hong Yu, and Ke Liu. Steering Angle Prediction Based on Travelable Regions and Bio-Inspired Neural Circuit Policy. *International Joint Conference on Rough Sets (IJCRS)*. 2024.
- [37] Zhuoyi Yu, Ye Wang, and Dajiang Lei. Research on Chinese Diabetes Question Classification with the Integration of Different BERT Models. *International Conference on Neural Computing for Advanced Applications (NCAA)*. 2023.
- [38] Qingyan Wang, Ye Wang, and Dajiang Lei. SFDA: Chinese Diabetic Text Classification Based on Sentence Feature Level Data Augmentation. *International Conference on Neural Computing for Advanced Applications (NCAA)*. 2023.
- [39] Daitianxia Li, Ye Wang, and Qun Liu. Adaptive Multi-Granularity Aggregation Transformer for Image Captioning. *International Joint Conference on Rough Sets (IJCRS)*. 2023.
- [40] Li Liu, Chongyang Wang, Youmin Zhang, Ye Wang, Qun Liu, and Guoyin Wang. Denoise Network Structure for User Alignment Across Networks via Graph Structure Learning. *International Conference on Data Mining and Big Data (DMBD)*. 2022.
- [41] Jingbo Liao, Hong Yu, Qi Cheng, and Ye Wang. Context-Aware Multi-Feature Fusion for Open-Domain Dialogue Generation. *IEEE International Conference on Industrial Technology (ICIT)*. 2022.
- [42] Shan Jin, Jiafan Wang, Ye Wang, and Zhengguang Zheng. A New Method for Sparse Signals Reconstruction in Fusion Center with Incomplete Measurements. *IEEE International Conference on Communications (ICC)*. 2019.
- [43] Xinxiang Zhang, Ye Wang, Han Wang, Yue Zhang, Hao Wu, and Mingbo Zhao. Bend Detection of Bridge Chords in UAV Images via Region-Based Deep Semantic Segmentation Network. *IEEE International Conference on Industrial Informatics (INDIN)*. 2019.
- [44] Han Wang, Ye Wang, Xinxiang Zhang, Mi Lu, Yoonsuck Choe, and Jingjing Cao. English Out-of-Vocabulary Lexical Evaluation Task. *IEEE International Conference on Industrial Informatics (INDIN)*. 2019.
- [45] Ye Wang, Yuanjiang Huang, Wu Zheng, Zhi Zhou, Debin Liu, and Mi Lu. Combining Convolutional Neural Network and Self-Adaptive Algorithm to Defeat Synthetic Multi-Digit Text-Based CAPTCHA. *IEEE International Conference on Industrial Technology (ICIT)*. 2017.
- [46] Ye Wang and Mi Lu. A Self-Adaptive Algorithm to Defeat Text-Based CAPTCHA. *IEEE International Conference on Industrial Technology (ICIT)*. 2016.

INVITED TALKS AND LECTURES

- 2025 Invited Talk, *Visual Intelligence through Multi-Granularity Cognitive Computing*, CCF@U Lecture Series (No. 1323), Sichuan University, Chengdu, China. [\[Link\]](#)
- 2023 Invited Talk, *Generative Modeling through Latent-Space Disentanglement*, Doctoral Forum, Yan'an University, Yan'an, China. [\[Link\]](#)
- 2023 Invited Lecture, *Summer Training Program on Machine Learning*, National Center for Applied Mathematics, Chongqing, China. [\[Link\]](#)
- 2023 Invited Lecture, *Generative AI in Education: Opportunities and Challenges*, Faculty Salon, Chongqing Nankai Secondary School, Chongqing, China. [\[Link\]](#)

MEDIA INTERVIEWS

2023 Media Interview, *ChatGPT Is Here: Should We Be Anxious?*, Chongqing Daily News, Chongqing. [\[Link\]](#)