Cell: +1 (352) 256 3237 Email: wang.qing@ufl.edu Department of Health Outcomes and Biomedical Informatics, College of Medicine, University of Florida, Florida, 32608, USA

RESEARCH INTERESTS

- ♡ NLP, LLM and KG.
- ♥ Data mining mainly focuses on biomedical data.
- ♡ Agent-based systems and RAG-based systems.

EDUCATION

- ► University of Florida, USA M.S. in Medical Sciences, Aug. 2024 - now
- ► University of Colorado Boulder, USA Visiting Student in Department of Computer Science, Jun. 2023 - Sep. 2023
- ► Zhejiang Normal University, China M.S. in Computer Science, Sep.2021 - Jun.2024, GPA: 3.79/4
- ► Zhejiang Wanli University, China B.S. in Internet of Things Engineering, Sep.2017 - Jun.2021, GPA: 3.31/4

PUBLICATIONS

Journal articles (First or #co-first author: 4)

- Chaojun Meng, Changfan Pan, Hongji Shu, Wang, Qing, Hanghui Guo, and Jia Zhu (2025). "Heterogeneous collaborative filtering contrastive learning for social recommendation". In: Applied Soft Computing, p. 112934 (SCI-Q1)
- Bo Li, Bob Zhang, Chengyang Zhang, Minghao Zhou, Weiliang Huang, Shihang Wang, Wang, Qing, Mengran Li, Yong Zhang, and Qianqian Song (2025). "PhenoProfiler: Advancing Phenotypic Learning for Image-based Drug Discovery". In: arXiv preprint arXiv:2502.19568
- Wang, Qing, Wen-jie Chen, Bo Li, Jing Su, Guangyu Wang, and Qianqian Song (2025). "HECLIP: Histology-Enhanced Contrastive Learning for Imputation of Transcriptomics Profiles". In: arXiv preprint arXiv:2501.14948
- Jianyang Shi, Zhangze Chen, Jia Zhu, Jian Zhou, Wang, Qing, and Xiaodong Ma (2024). "Research on the impact of pointing gestures based on computer vision technology on classroom concentration". In: Neural Computing and Applications, pp. 1–13 (CCF-C)
- Bo Li, Yong Zhang, Wang, Qing, Chengyang Zhang, Mengran Li, Guangyu Wang, and Qianqian Song (2024). "Gene expression prediction from histology images via hypergraph neural networks". In: *Briefings in Bioinformatics* 25.6, bbae500 (SCI-Q1, CCF-B)
- Xiaona Liu, Wang, Qing *, Minghao Zhou, Yanfei Wang, Xuefeng Wang, Xiaobo Zhou, and Qianqian Song (2024). "DrugFormer: Graph-Enhanced Language Model to Predict Drug Sensitivity". In: Advanced Science 11.40, p. 2405861 (SCI-Q1)

- Wang, Qing, Yuzhou Feng, Yanfei Wang, Bo Li, Jianguo Wen, Xiaobo Zhou, and Qianqian Song (2024). "AntiFormer: graph enhanced large language model for binding affinity prediction". In: *Briefings in bioinformatics* 25.5, bbae403 (SCI-Q1, CCF-B)
- Hongji Shu, Chaojun Meng, Pasquale De Meo, **Wang, Qing**, and Jia Zhu (2024). "Self-supervised hypergraph learning for enhanced multimodal representation". In: *IEEE Access* 12, pp. 20830–20839 (SCI-Q2)
- Wang, Qing, Jia Zhu, Hongji Shu, Kwame Omono Asamoah, Jianyang Shi, and Cong Zhou (2023). "GUDN: A novel guide network with label reinforcement strategy for extreme multi-label text classification". In: *Journal of King Saud University-Computer and Information Sciences* 35.4, pp. 161–171 (SCI-Q1)
- Kwame Omono Asamoah, Adjei Peter Darko, Collins Opoku Antwi, Seth Larweh Kodjiku, Esther Stacy EB Aggrey, **Wang**, **Qing**, and Jia Zhu (2023). "A blockchain-based crowdsourcing loan platform for funding higher education in developing countries". In: *IEEE Access* 11, pp. 24162–24174 (SCI-Q2)

Conference abstracts (First or #co-first author: 2)

- Changfan Pan, **Wang**, **Qing**, Jia Zhu, Xinran Cao, Hanghui Guo, and Changqin Huang (2024). "Stable Attribution with Local Surrogate Model". In: *CCF Conference on Computer Supported Cooperative Work and Social Computing*. Springer, pp. 187–201
- Wang, Qing, Jia Zhu, Changfan Pan, Jianyang Shi, Chaojun Meng, and Hanghui Guo (2023). "Dual trustworthy mechanism for illness classification with multi-modality data". In: 2023 IEEE International Conference on Data Mining Workshops (ICDMW), pp. 356–362. DOI: 10.1109/ICDMW60847. 2023.00051
- Cong Zhou, Jia Zhu, **Wang, Qing**, Chaojun Meng, Changfan Pan, and Jianyang Shi (2023). "Enhancing Question Generation with Syntactic Details and Multi-Level Attention Mechanism". In: 2023 7th Asian Conference on Artificial Intelligence Technology (ACAIT). IEEE, pp. 557–562
- Wang, Qing, Hanwen Zhu, Yilong Ji, Jianyang Shi, Xiaodong Ma, and Jia Zhu (2023). "Automatic Teaching Plan Grading with Distilled Multimodal Education Knowledge". In: *International Conference on Computer Science and Educational Informatization*. Springer, pp. 391–404

Patents

• Profile generation method, system and medium based on guide network text classification. Changqin Huang, **Qing Wang**, Jia Zhu, Hongji Shu. CN114780723B. CN202210367239.7

RESEARCH EXPERIENCE

- ▲ Medical cold chain transportation monitoring system based on BLE and Android Sep. 2019 Nov. 2019
 - a) Design a cold medical transportation monitoring system by combining Bluetooth low-energy wireless communication, CC2530, sensors, MCU, and CNN; b) Develop Android-side applications, and use the OneNET cloud platform for data aggregation, filtering, and storage through data streams and visualization processing.
- ▲ Personalized learning path recommendation with multimodal knowledge graph Nov.2021 –Jun.2022
 - a) Clean and preprocess multimodal data; b) Design deep learning methods for multimodal data fusion and feature extraction; c) Use graph neural network combined with hypergraph to design recommendation system and complete course recommendation.

▲ Intelligent evaluation of normal students' teaching ability with multimodal fusion

Dec.2022 - Jun.2023

a) Design a transformer-based neural network multimodal classification algorithm to help realize the function of student profiles; b) Collect and organize literature, participate in writing reports and proposals.

▲ The interpretability of DNN for illness classification with multi-omics data

Jun.2023 - Jun.2024

a) Construct a novel dual trustworthy mechanism for multi-modality classification, which can make the process and results of DNN more trustable and interpretable while increasing performance.

WORK EXPERIENCE

• Hualin Technology Co., Ltd, China

Internship, Jun.2020 – Jan.2021

a) Design a lighting system based on MCU and BLE. b) Design an RFID-based card swiping and fee deduction system. c) Develop a digital clock based on FPGA.

SKILLS

Programming: Python, C, Matlab, C++, Java, HTML, R

Tools: Pytorch, Docker, Linux, IoT

Languages: Mandarin (Native), English (IELTS: 6.5)

HONORS AND SCHOLARSHIPS

- ★ Third Prize of the Physics Contest for College Students in Zhejiang Province, Dec.2018
- ★ Bachelor's degree with Honor in Zhejiang Wanli University, Jun.2021
- ★ Zhejiang Normal University Third-Class Postgraduate Scholarship, Dec.2021
- ★ Zhejiang Normal University Third-Class Postgraduate Scholarship, Dec.2022
- ★ Zhejiang Normal University Best Academic Reporter Award, Dec.2022
- ★ Kaggle Research Prediction Competition top 22% (201/936), Jan.2023
- ★ Kaggle Featured Code Competition top 6% (59/1057, Bronze Medalist), Mar.2023
- ★ Zhejiang Normal University First-Class Postgraduate Scholarship, Dec.2023
- ★ Zhejiang Normal University 2023 Graduate Study Abroad Exchange Scholarship, Dec.2023

PROFESSIONAL SERVICES AND ACTIVITIES

- * Journals
 - Reviewer of Journal of King Saud University Computer and Information Sciences
 - Reviewer of Journal of Computational Methods in Sciences and Engineering (JCMSE)
 - Reviewer of Journal of Advanced Research in Applied Sciences and Engineering Technology
 - Reviewer of BMC Biology

- Reviewer of Hereditas
- Reviewer of Journal of Supercomputing

* Conferences

- Presenter of ChineseCSCW 2021
- Speaker of ICDM Workshop 2023
- Program Committee Member of ICIBM 2024
- Reviewer of ICIBM

* Others

- Speaker of UFHealth Research showcase 2025
- Student Member of IEEE
- Student Member of CCF

LINKS

- Google scholar
- \hookrightarrow Github
- → Homepage
- \hookrightarrow ORCID