

# Qing Wang

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*Department of Health Outcomes and Biomedical Informatics, College of Medicine, University of Florida, Florida, 32608, USA*

## RESEARCH INTERESTS

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

## EDUCATION

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

## PUBLICATIONS

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- Asamoah, K. O., Darko, A. P., Antwi, C. O., Kodjiku, S. L., Aggrey, E. S. E., **Wang, Q.**, & Zhu, J. (2023). A blockchain-based crowdsourcing loan platform for funding higher education in developing countries. *IEEE Access*, 11, 24162-24174.
- **Wang, Q.**, Zhu, J., Shu, H., Asamoah, K. O., Shi, J., & Zhou, C. (2023). GUDN: A novel guide network with label reinforcement strategy for extreme multi-label text classification. *Journal of King Saud University-Computer and Information Sciences*, 35(4), 161-171.
- Shu, H., Meng, C., De Meo, P., **Wang, Q.**, & Zhu, J. (2024). Self-Supervised Hypergraph Learning for Enhanced Multimodal Representation. *IEEE Access*.
- Li, B., Zhang, Y., **Wang, Q.**, Zhang, C., Li, M., Wang, G., & Song, Q. (2024). Gene expression prediction from histology images via hypergraph neural networks. *Briefings in Bioinformatics*, 25(6), bbae500.
- **Wang, Q.**, Feng, Y., Wang, Y., Li, B., Wen, J., Zhou, X., & Song, Q. (2024). AntiFormer: graph enhanced large language model for binding affinity prediction. *Briefings in Bioinformatics*, 25(5), bbae403.
- Liu, X., **Wang, Q.**, Zhou, M., Wang, Y., Wang, X., Zhou, X., & Song, Q. (2024). DrugFormer: Graph-Enhanced Language Model to Predict Drug Sensitivity. *Advanced Science*, 2405861.
- **Wang, Q.**, Zhu, J., Pan, C., Shi, J., Meng, C., & Guo, H. (2023, December). Dual trustworthy mechanism for illness classification with multi-modality data. In *2023 IEEE International Conference on Data Mining Workshops (ICDMW)* (pp. 356-362). IEEE.

- Zhou, C., Zhu, J., **Wang, Q.**, Meng, C., Pan, C., & Shi, J. (2023, November). Enhancing Question Generation with Syntactic Details and Multi-Level Attention Mechanism. In 2023 7th Asian Conference on Artificial Intelligence Technology (ACAIT) (pp. 557-562). IEEE.
- **Wang, Q.**, Zhu, H., Ji, Y., Shi, J., Ma, X., & Zhu, J. (2023, August). Automatic Teaching Plan Grading with Distilled Multimodal Education Knowledge. In International Conference on Computer Science and Educational Informatization (pp. 391-404). Singapore: Springer Nature Singapore.

## RESEARCH EXPERIENCE

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### ▲ 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

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### • 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

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

*Tools:* Pytorch, Docker, Linux, IoT

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

## HONORS AND SCHOLARSHIPS

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- ★ 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
- ★ 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

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### \* Journal

- Reviewer of Journal of King Saud University Computer and Information Sciences (4 times)
- Reviewer of Journal of Computational Methods in Sciences and Engineering (JCMSE) (2 times)
- Reviewer of Journal of Advanced Research in Applied Sciences and Engineering Technology (1 time)
- Reviewer of BMC Biology (4 times)

### \* Conference

- Presenter of ICDM Workshop 2023
- Program Committee Members of ICIBM 2024
- Reviewer of ICIBM (4 times)

### \* Organizations

- Student Member of IEEE
- Student Member of CCF

## LINKS

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- ↪ [Google scholar](#)
- ↪ [Github](#)
- ↪ [Homepage](#)
- ↪ [ORCID](#)
- ↪ [Linkedin](#)