Qing Wang

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

♡ AI4Science (AI4EHR, AI4VC, AI4Drug).

♡ Biomedical Foundation Models.

♡ Large Language Models, Agent-based Systems and RAG-based(KG) Systems.

EDUCATION

► **University of Florida, USA**
Ph.D. in Medical Sciences, Aug.2025 - now, **GPA: 3.44/4**

► **University of Florida, USA**
M.S. in Medical Sciences, Aug.2024 - May.2025

► **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: 3.81/4**

► **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: 5)

- Bo Li, Bob Zhang, Chengyang Zhang, Minghao Zhou, Weiliang Huang, Shihang Wang, **Qing, Wang**, Mengran Li, Yong Zhang, and Qianqian Song (2025). "PhenoProfiler: advancing phenotypic learning for image-based drug discovery". In: *Nature Communications* (JCR-Q1, IF:15.7)
- **Qing, Wang**, Yining Pan, Minghao Zhou, Zijia Tang, Yanfei Wang, Guangyu Wang, and Qianqian Song (2025). "scDrugMap: Benchmarking Large Foundation Models for Drug Response Prediction". In: *Nature Communications* (JCR-Q1, IF:15.7)
- Hanghui Guo, Jia Zhu, Changfan Pan, **Qing, Wang**, Cong Zhou, and Chaojun Meng (2025). "KE-LPG: Toward Semantic Refinement for Lesson Plan Generation". In: *Arabian Journal for Science and Engineering*, pp. 1–14 (JCR-Q2, IF:2.9)
- Yanfei Wang, **Qing, Wang**, Minghao Zhou, Jialu Liang, Lei You, Breton Asken, Xiaobo Zhou, and Qianqian Song (2025). "Integration of Genetic and Imaging Data for Alzheimer's Disease Diagnosis and Interpretation". In: *Advanced Science* 12.41, e07629 (JCR-Q1, IF:14.1)
- Jianyang Shi, Zhangze Chen, Jia Zhu, Jian Zhou, **Qing, Wang**, 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 (JCR-Q1, IF:4.5)

- **Qing, Wang**, Wen-jie Chen, Jing Su, Guangyu Wang, and Qianqian Song (2025). "Heclip: histology-enhanced contrastive learning for imputation of transcriptomics profiles". In: *Bioinformatics*, btaf363 (JCR-Q1, IF:5.4)
- Chaojun Meng, Changfan Pan, Hongji Shu, **Qing, Wang**, Hanghui Guo, and Jia Zhu (2025). "Heterogeneous collaborative filtering contrastive learning for social recommendation". In: *Applied Soft Computing*, p. 112934 (JCR-Q1, IF:6.6)
- Bo Li, Yong Zhang, **Qing, Wang**, 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 (JCR-Q1, IF:7.7)
- Xiaona Liu, **Qing, Wang** [#], 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 (JCR-Q1, IF:14.1)
- **Qing, Wang**, 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 (JCR-Q1, IF:7.7)
- Hongji Shu, Chaojun Meng, Pasquale De Meo, **Qing, Wang**, and Jia Zhu (2024). "Self-supervised hypergraph learning for enhanced multimodal representation". In: *IEEE Access* 12, pp. 20830–20839 (JCR-Q2, IF:3.6)
- **Qing, Wang**, 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 (JCR-Q1, IF:6.1)
- Kwame Omono Asamoah, Adjei Peter Darko, Collins Opoku Antwi, Seth Larweh Kodjiku, Esther Stacy EB Aggrey, **Qing, Wang**, and Jia Zhu (2023). "A blockchain-based crowdsourcing loan platform for funding higher education in developing countries". In: *IEEE Access* 11, pp. 24162–24174 (JCR-Q2, IF:3.6)

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

- Changfan Pan, **Qing, Wang**, 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
- **Qing, Wang**, 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, **Qing, Wang**, 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
- **Qing, Wang**, 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

SKILLS

Programming: Python, C, Matlab, C++, Java, HTML, R
Tools: Pytorch, Docker, Linux, IoT
Languages: Mandarin, English

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 Genome Biology
  - Reviewer of Briefings in Bioinformatics
  - Reviewer of Neural Networks
  - Reviewer of Applied Soft Computing
  - Reviewer of BMC Biology
  - Reviewer of Journal of King Saud University Computer and Information Sciences
  - Reviewer of Plos One
  - Reviewer of Journal of Supercomputing
  - Reviewer of Frontiers in Psychiatry
  - Reviewer of Frontiers in Public Health
  - Reviewer of Frontiers in Digital Health
  - Reviewer of Journal of Computational Methods in Sciences and Engineering
  - Reviewer of Journal of Advanced Research in Applied Sciences and Engineering Technology
  - Reviewer of Hereditas
  - Reviewer of Multimedia Tools and Applications
  - Reviewer of Discover Education
  - Reviewer of Chemico-Biological Interactions
- ∗ **Conferences**

- Program Committee Member of ICIBM 2024/2025
- Reviewer of ICIBM 2024/2025
- Poster Presenter of ICDM Workshop 2023 Paper: ”Dual trustworthy mechanism for illness classification with multi-modality data”
- Presenter of ChineseCSCW 2021

* **Others**
  - As a Guest Lecturer in GMS6804 : Translational Bioinformatics, 2026 Spring, HOBI, University of Florida. Topic: ”AI-Driven Paradigm for Single-Cell Drug Resistance Prediction and Evaluation”
  - Give a Paper Presentation in Health Informatics and AI Learning Series (Spring 2026), Brown Center for Biomedical Informatics (BCBI), University of Brown. Paper: ”scDrugMap: benchmarking large foundation models for drug response prediction”
  - Poster Presenter of UFHealth Research showcase 2025. Paper: ”HECLIP: histology-enhanced contrastive learning for imputation of transcriptomics profiles”
  - Student Member of IEEE
  - Student Member of CCF

LINKS

↪ Google scholar

↪ Github

↪ Homepage

↪ ORCID

↪ Linkedin

↪ ResearchGate