

KANGYU ZHENG

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Education

Rensselaer Polytechnic Institute

Ph.D in Computer Science

Sep. 2024 – Now

Troy, NY

The Ohio State University

Master of Science in Computer Science

Sep. 2021 – Jun. 2024

Columbus, Ohio

University of Minnesota

Bachelor of Science in Computer Science

Sep. 2018 – Jun. 2021

Minneapolis, Minnesota

Research Experience

Developing evaluation benchmark for drug discovery

Advised by Dr. Tianfan Fu

Oct. 2023 - May. 2024

- Develop fair evaluation benchmarks for different types of structure-based drug discovery algorithms.
- Found that models based on genetic algorithms perform better than those based on generative models, with related papers accepted as poster on ICML 2024 AI for Science Workshop

Designing quantum machine learning model for drug property

Advised by Dr. Zhiding Liang and Dr. Tianfan Fu

Oct. 2024 - Present

- Using quantum circuit search method to find robust QML circuits for ADMET task

Work Experience

The Ohio State University

Teaching Assistant

Sep. 2021 – Dec. 2023

Columbus, Ohio

- Assisted in teaching, with duties including grading homework and lab assignments, as well as conducting office hours.
- Participated in courses including Modeling and Problem Solving with Excel and Access and Artificial Intelligence I.
- Involved in answering Excel and Access queries and writing Python programs to demonstrate artificial intelligence concepts, such as MLP (Multilayer Perceptron), k-NN (k-Nearest Neighbors), and SVM (Support Vector Machine).

Tencent

Applied research Intern

May. 2024 – Aug. 2024

Shenzhen, China

- Collaborate with other team members to develop an auto-driving system for a developing game. Using PPO algorithm and tested on CARLA

Publications

1. **Zheng, K.**, Fu, T., Liang, Z. (2025). QCS-ADME: Quantum Circuit Search for Drug Property Prediction with Imbalanced Data and Regression Adaptation
2. **Zheng, K.**, Lu, Y., Zhang, Z., Wan, Z., Ma, Y., Zitnik, M., and Fu, T. (2024). Structure-based drug design benchmark: Do 3d methods really dominate?
3. Liu, C., Wan, Z., Wang, Y., Shen, H., Wang, H., **Zheng, K.**, Zhang, M., and Arcucci, R. (2024). Benchmarking and boosting radiology report generation for 3d high-resolution medical images.

Research Interest and Technical Skills

Research Interest: AI for science/quantum, Quantum computing

Languages and Framework: Rust, C/C++, Python, Java, MATLAB, OCaml, Pytorch, Qiskit, PennyLane