RUIYANG QIN

Address: 222 Cushing Hall, Notre Dame, IN 46556

Email: [rqin@nd.edu]

Homepage: `https://ruiyangqin2016.github.io/`

Phone: (+1)404-740-6640

RESEARCH INTERESTS
On-Device Learning, Personalized AI/ML, Deep Learning in Healthcare

EMPLOYMENT
University of Notre Dame Notre Dame, Indiana
Ph.D. Student, Computer Science and Engineering Aug. 2022 - Present
Advisor: Yiyu Shi
Focus: On-device learning and personalized deep learning in healthcare

EDUCATION
Georgia Institute of Technology Atlanta, Georgia
M.S. in Computer Science 2021
B.S. in Computer Science 2020

REVIEW SERVICES

- IEEE RO-MAN

AWARDS

- DAC Fellowship, 2024, USA
- DAC Fellowship, 2023, USA

TEACHING

- CSE 30151 - Theory of Computing, Notre Dame, Spring 2023
- CSE 30246 - Database Concepts, Notre Dame, Fall 2022
- CS 6476 - Computer Vision, Georgia Tech, Spring 2021

PUBLICATIONS

Conferences

- Gelei Xu, **Ruiyang Qin**, Zhi Zheng, Yiyu Shi, *An Adaptive System for Wearable Devices to Detect Stress Using Physiological Signals*, The ACM Conference on Human Factors in Computing Systems (CHI), 2024.
- **Ruiyang Qin**, Jun Xia, Zhenge Jia, Meng Jiang, Ahmed Abbasi, Peipei Zhou, Jingtong Hu, Yiyu Shi, *Enabling On-Device Large Language Model Personalization with Self-Supervised Data Selection and Synthesis*, The 61st IEEE/ACM Design Automation Conference (DAC), 2024.
- **Ruiyang Qin**, Yuting Hu, Zheyu Yan, Jinjun Xiong, Ahmed Abbasi, Yiyu Shi, *FL-NAS: Towards Fairness of NAS for Resource Constrained Devices via Large Language Models*, The 29th Asia and South Pacific Design Automation Conference (ASP-DAC), 2024.

- Haozheng Luo, **Ruiyang Qin**, Chenwei Xu, Guo Ye, Zening Luo, *Open-Ended Multi-Modal Relational Reasoning for Video Question Answering*, The 32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN), 2023.
- Zhiding Liang, Zhixin Song, Jinglei Cheng, Zichang He, Ji Liu, Hanrui Wang, **Ruiyang Qin**, Yiru Wang, Song Han, Xuehai Qian, Yiyu Shi, *Hybrid gate-pulse model for variational quantum algorithms*, The 60th IEEE/ACM Design Automation Conference (DAC), 2023.

Under Review

- Marialena Bevilacqua, Kezia Oketch, **Ruiyang Qin**, Will Stamey, Xinyuan Zhang, Yi Gan, Kai Yang, Ahmed Abbasi, *When Automated Assessment Meets Automated Content Generation: Examining Text Quality in the Era of GPTs*, ACM Transactions on Information Systems (TOIS), Under Review.
- **Ruiyang Qin**[*], Ryan Cook[*], Kai Yang, Ahmed Abbasi, David Dobolyi, Salman Seyedi, Emily Griner, Hyeokhyen Kwon, Robert O. Cotes, Zifan Jiang, and Gari D. Clifford, *Language Models for Online Depression Detection: A Review and Benchmark Analysis on Remote Interviews*, ACM Transactions on Management Information Systems (TMIS), Under Review.