

JINDI WU

jwu115@depaul.edu ◇ <https://jindi0.github.io/>

RESEARCH INTEREST

Her research interests include quantum computing, machine learning, and security and privacy, with a particular focus on quantum machine learning, quantum error modeling and mitigation, quantum circuit compilation, quantum networks, and addressing security and privacy challenges in quantum cloud computing.

WORK EXPERIENCE

DePaul University, IL, USA Sep. 2025 - Present
Assistant Professor, School of Computing

EDUCATION

William & Mary, VA, USA Aug. 2020 - Aug. 2025
Ph.D. Candidate in Computer Science
Advisor: Prof. Qun Li

Syracuse University, NY, USA Sep. 2018 - May 2020
M.S. in Computer Science

Nanjing University of Aeronautics and Astronautics, China Sep. 2013 - Jun. 2017
B.E. in Information Security

PUBLICATIONS

Peer-reviewed Conference Papers

1. Detecting Fraudulent Services on Quantum Cloud Platforms via Dynamic Fingerprinting
Jindi Wu, Tianjie Hu, and Qun Li
43rd IEEE/ACM International Conference on Computer-Aided Design (ICCAD'24)
2. Quantum Network Routing Based on Surface Code Error Correction
Tianjie Hu, **Jindi Wu**, and Qun Li
44th IEEE International Conference on Distributed Computing Systems (ICDCS'24), pp. 1236-1247
3. MORE: Measurement and Correlation-Based Variational Quantum Circuit for Multi-Classification
Jindi Wu, Tianjie Hu, and Qun Li
4th IEEE International Conference on Quantum Computing and Engineering (QCE'23), pp. 208-218
4. LAWS: Look Around and Warm-Start Natural Gradient Descent for Quantum Neural Networks
Zeyi Tao, **Jindi Wu**, and Qun Li
2nd IEEE International Conference on Quantum Software (QSW'23), pp. 76-82
5. Scalable Quantum Neural Networks for Classification
Jindi Wu, Zeyi Tao, and Qun Li
3rd IEEE International Conference on Quantum Computing and Engineering (QCE'22), pp. 38-48
6. Efficient Privacy-Preserving Federated Learning for Resource-Constrained Edge Devices
Jindi Wu, Qi Xia, and Qun Li
17th International Conference on Mobility, Sensing and Networking (MSN'21), pp. 191-198

- SAFE: Similarity-Aware Multi-Modal Fake News Detection
Xinyi Zhou, **Jindi Wu**, and Reza Zafarani
24th Pacific-Asia Conference on knowledge discovery and data mining(PAKDD'20), pp. 354-367

Journal & Magazine Articles

- Q-ID: Lightweight Quantum Network Server Identification through Fingerprinting
Jindi Wu, Tianjie Hu, and Qun Li
IEEE Network 38(5): 146-152, 2024
- Distributed Quantum Machine Learning: Federated and Model-Parallel Approaches
Jindi Wu, Tianjie Hu, and Qun Li
IEEE Internet Computing 28(2): 65-72, 2024
- SurfaceNet: Fault-Tolerant Quantum Networks with Surface Codes
Tianjie Hu, **Jindi Wu**, and Qun Li
IEEE Network 38(1): 155-162, 2024
- A Survey of Federated Learning for Edge Computing: Research Problems and Solutions
Qi Xia, Winson Ye, Zeyi Tao, **Jindi Wu**, and Qun Li
High-Confidence Computing 1(1): 100008, 2021. (HCC'21)

Posters

- Scalable Quantum Convolutional Neural Networks for Edge Computing
Jindi Wu and Qun Li
7th IEEE/ACM Symposium on Edge Computing (SEC'22), pp. 307-309
- Fingerprinting Cloud-Based Quantum Computers Using Quantum Noise
Jindi Wu, Tianjie Hu, and Qun Li
3rd Commonwealth Cyber Initiative Symposium (CCI Symposium'24)

TEACHING

Instructor

DePaul University

- CSC 402 Data Structures I Fall 2025

Teaching Assistant

William & Mary

- CSCI 303 Algorithms Spring 2022
- CSCI 416 Introduction to Machine Learning Fall 2021
- CSCI 304 Computer Organization Spring 2021
- CSCI 301 Software Development Fall 2020

TALKS

- **Detecting Fraudulent Services on Quantum Cloud Platforms via Dynamic Fingerprinting**
ICCAD'24, Newark, New Jersey
- **MORE: Measurement and Correlation-Based Variational Quantum Circuit for Multi-Classification**
QCE'23, Bellevue, Washington

- **Quantum Machine Learning**
W&M Graduate & Honors Research Symposium'23, Williamsburg, Virginia
- **Scalable Quantum Neural Networks for Classification**
QCE'22, Broomfield, Colorado
- **Efficient Privacy-Preserving Federated Learning for Resource-Constrained Edge Devices**
MSN'21, Virtual

HONORS & AWARDS

- | | |
|---|------|
| • W&M Graduate Research Seed Grants | 2024 |
| • W&M International Student Opportunity Scholarship | 2022 |
| • SEC'22 Travel Grant | 2022 |
| • High-Confidence Computing (HCC) 2021 Best Paper Award | 2021 |
| • W&M CS Conference Fund | 2021 |

COMMUNITY SERVICE

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|---|------|
| • Grace Hopper Celebration 23 (GHC'23) Graduate Chaperone | 2023 |
| • QCE'23 StableQ Workshop PC Member | 2023 |
| • SEC'22 Ph.D. Forum Co-chair | 2022 |

Reviewer

- | | |
|---|------------------|
| • IEEE Transactions on Parallel and Distributed Systems | 2024 |
| • Quantum Machine Intelligence | 2024 |
| • Quantum Information Processing | 2024 |
| • IEEE Internet Computing | 2023, 2024 |
| • Expert Systems With Applications (ESWA) | 2023, 2024 |
| • IEEE Network Magazine | 2024 |
| • IEEE Transactions on Computers | 2021, 2022, 2023 |
| • ICCAD'23 Quantum Contest | 2023 |
| • IEEE Internet of Things Journal | 2023 |
| • Applied Intelligence (APIN) | 2023 |
| • 4th IEEE International Conference on Quantum Computing and Engineering (QCE'23) | 2023 |
| • 10th IEEE Conference on Communications and Network Security (IEEE CNS) | 2022 |
| • Journal of Reliable Intelligent Environments (JRIE) | 2022 |