

Tomoko Yamada

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Education

Kyushu University

Master of Science in Quantum Computing

Apr 2020 – Mar 2022 | Fukuoka, Japan

GPA: 3.8/4.0

Activities: Quantum Computing Lab Member, Qiskit Workshop Organizer, Peer Mentor

Relevant Coursework: Quantum Algorithms, Quantum Error Correction, Quantum Information Theory

Summer School: MIT 2021 (GPA: 3.9/4.0)

Work Experience

Quantum Computing Researcher | IBM Research | Apr 2022 - Present | Tokyo, Japan

- Developed quantum algorithms using Qiskit for optimization problems.
- Collaborated on IBM Q hardware experiments, achieving fidelity improvements of 10%.
- Published research in IEEE Quantum 2023.

Skills

Frameworks: Qiskit, Cirq

Languages: Python, Q#

Other Skills: Quantum Algorithm Design, Error Mitigation, Research Publications

Certificates

IBM Quantum Developer Certification

Coursera: Quantum Computing Fundamentals

Udacity: Introduction to Quantum Computing

Awards

IBM Research Fellowship 2023

Kyushu University Academic Excellence Award
First Prize – Japan Quantum Hackathon