

# NTU Q

## SELECTED NEWS

### NTU-IBM Quantum System Users Meeting 2022 and Qiskit Hackathon Taiwan 2022

This month, NTU-IBM Quantum Hub hold a NTU-IBM Quantum System Users Meeting 2022 and Qiskit Hackathon in Taiwan with assistance and support from IBM. Since National Taiwan University (NTU) and IBM signed an agreement and established the “IBM Quantum Hub at NTU” in January of 2019, the NTU Hub has held annual users’ meetings to foster and cultivate the users in Taiwan for them to get familiar with and the to master quantum computing skills, as well as to exchange users’ experiences between different academic research institutes.

In the Qiskit Quantum Computing Hackathon, the project ideas include but not limited to some popular topics on quantum computing: Quantum algorithms, Quantum information, Quantum finance, Quantum simulations, Quantum machine learning, Quantum error-correction. The participants try to solve their selected projects under the guidance and assistance of quantum computing coaches from Taiwan and IBM.



The champion is QiQiQiQiQi, and this team won a prize of 20,000 NTD and medal. Their works is to solve the large-scale combinatorial optimization, that is simplifying complex quantum circuits into effective small circuits. The results were significantly beneficial to the application of quantum computing in the future.



The second place is Q Generation, and this team use the powerful capabilities of quantum computing to optimize ultra-large integrated circuits. The third place is IBM FADACAI, and they studied quantum simulation. The fourth place is Quantum Chives, and they use quantum algorithms to quantum finance and focus on the arbitrage of foreign exchange.



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