

Qiskit Global Summer School 2024

Week 1 Schedule

JULY 15
Monday

9:00 AM EDT
Global Summer School
Welcome & Kickoff

11:00 AM EDT
Introduction to Qiskit
Speaker: Abby Mitchell

1:00 PM EDT
Introduction Qiskit Runtime
Primitives V2
Speaker: Chris Wood

3:00 PM EDT
Live Q&A Session with Abby
Mitchell and Chris Wood

JULY 16
Tuesday

11:00 AM EDT
Quantum Circuit
Compilation with Qiskit
Speaker: Matthew Treinish

1:00 PM EDT
Lab 1: Transpilation:
Generating Efficient
Hardware-Compliant
Quantum Circuits
Sebastian Brandhofer

3:00 PM EDT
Live Q&A Session with
Matthew Treinish

JULY 17
Wednesday

11:00 AM EDT
Hardware Noise: Modeling
and Characterization
Speaker: Haimeng Zhang

1:00 PM EDT
Live Q&A Session with
Haimeng Zhang

3:00 PM EDT
Lab 2: Hardware Noise
Samantha Barron

JULY 18
Thursday

11:00 AM EDT
Execution on Noisy
Quantum Hardware:
Fighting Errors Before Fault
Tolerance
Speaker: Pedro Rivero

1:00 PM EDT
Live Q&A Session with
Pedro Rivera

3:00 PM EDT
Lab 3: Execution on Noisy
Quantum Hardware via
Qiskit Runtime
Pedro Rivera

JULY 19
Friday

11:00 AM EDT
Circuit Cutting with
Antonio Córcoles

1:00 PM EDT
Live Q&A Session with
Antonio Córcoles



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Week 2 Schedule

JULY 22
Monday



11:00 AM EDT

Mapping Problems to Qubits
Speaker: Kevin Sung

1:00 PM EDT

Live Q&A Session with Kevin Sung

JULY 23
Tuesday



11:00 AM EDT

Quantum Combinatorial Optimization
Speaker: Daniel Egger

1:00 PM EDT

TBD

JULY 24
Wednesday



11:00 AM EDT

Hamiltonian Dynamics: Applications and Simulation
Speaker: Mario Motta

1:00 PM EDT

Live Q&A Session with Mario Motta

3:00 PM EDT

Lab 4: Simulating Nature at Utility Scale
Kaelyn Ferris

JULY 25
Thursday



11:00 AM EDT

Quantum Machine Learning
Speaker: Meltem Tolunay

1:00 PM EDT

Live Q&A Session with Meltem Tolunay

JULY 26
Friday



11:00 AM EDT

Closing Ceremony/ Panel
Speakers: Various

