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
Live Q&A Session with Matthew Treinish

3:00 PM EDT
Lab 1: Transpilation: Generating Efficient Hardware-Compliant Quantum Circuits
Sebastian Brandhofer

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 Rivero

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

JULY 19
Friday

11:00 AM EDT
Workflows for Quantum-centric supercomputing with Antonio Córcoles

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

Qiskit Global Summer School 2024

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

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