Qiskit Global Summer School 2024

Week 1 Schedule

JULY 15 Monday	**JULY 16** Tuesday	**JULY 17** Wednesday	**JULY 18** Thursday	**JULY 19** Friday
9:00 AM EDT Global Summer School Welcome & Kickoff				
11:00 AM EDT Introduction to Qiskit *Speaker: Abby Mitchell*	**11:00 AM EDT** Quantum Circuit Compilation with Qiskit *Speaker: Matthew Treinish*	**11:00 AM EDT** Hardware Noise: Modeling and Characterization *Speaker: Haimeng Zhang*	**11:00 AM EDT** Execution on Noisy Quantum Hardware: Fighting Errors Before Fault Tolerance *Speaker: Pedro Rivera*	**11:00 AM EDT** Circuit Cutting with Antonio Córcoles
1:00 PM EDT Introduction Qiskit Runtime Primitives V2 *Speaker: Chris Wood*	**1:00 PM EDT** Lab 1: Transpilation: Generating Efficient Hardware-Compliant Quantum Circuits Sebastian Brandhofer	**1:00 PM EDT** Live Q&A Session with Haimeng Zhang	**1:00 PM EDT** Live Q&A Session with Pedro Rivera	**1:00 PM EDT** Live Q&A Session with Antonio Córcoles
3:00 PM EDT Live Q&A Session with Abby Mitchell and Chris Wood	**3:00 PM EDT** Live Q&A Session with Matthew Treinish	**3:00 PM EDT** Lab 2: Hardware Noise Samantha Barron	**3:00 PM EDT** Lab 3: Execution on Noisy Quantum Hardware via Qiskit Runtime Pedro Rivera	

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Week 2 Schedule

JULY 22 Monday	**JULY 23** Tuesday	**JULY 24** Wednesday	**JULY 25** Thursday	**JULY 26** Friday
11:00 AM EDT Mapping Problems to Qubits *Speaker: Kevin Sung*	**11:00 AM EDT** Quantum Combinatorial Optimization *Speaker: Daniel Egger*	**11:00 AM EDT** Hamiltonian Dynamics: Applications and Simulation *Speaker: Mario Motta*	**11:00 AM EDT** Quantum Machine Learning *Speaker: Meltem Tolunay*	**11:00 AM EDT** Closing Ceremony/ Panel *Speakers: Various*
1:00 PM EDT Live Q&A Session with Kevin Sung	**1:00 PM EDT** TBD	**1:00 PM EDT** Live Q&A Session with Mario Motta	**1:00 PM EDT** Live Q&A Session with Meltem Tolunay	
		3:00 PM EDT Lab 4: Simulating Nature at Utility Scale Kaelyn Ferris		

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