Early Access Summer School 2024

# Week 1 Schedule

## JUNE 17
## Monday

**9:00 AM EDT**
Early Access Summer School Welcome & Kickoff

**11:00 AM EDT**
Introduction Qiskit 1.0
*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, Chris Wood and John Watrous

## JUNE 18
## Tuesday

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

**1:00 PM EDT**
Live Q&A Session with Matthew Treniesh

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

## JUNE 19
## 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

## JUNE 20
## Thursday

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

**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

## JUNE 21
## Friday

**1:00 PM EDT**
Live Q&A Session with Lab Creators

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# Week 2 Schedule

**JUNE 24**
## Monday

**11:00 AM EDT**
Mapping Problems to Quibits
*Speaker: Kevin Sung*

**1:00 PM EDT**
Live Q&A Session with
Kevin Sung and John Watrous

**JUNE 25**
## Tuesday

**11:00 AM EDT**
Quantum Combinatorial Optimization
*Speaker: Daniel Egger*

**1:00 PM EDT**
Live Q&A Session with
Daniel Egger

**JUNE 26**
## 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

**JUNE 27**
## Thursday

**11:00 AM EDT**
Quantum Machine Learning
*Speaker: Meltem Tolunay*

**1:00 PM EDT**
Live Q&A Session with
Meltem Tolunay

**JUNE 28**
## Friday

**11:00 AM EDT**
Closing Talk: how to Be a Mentor
*Speakers: Brian Ingmanson & Team*

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