

## Week 1 Schedule

**July 18**  
**Monday**

**9:00 AM EDT**

Global Summer School  
Welcome & Kickoff

**11:00 AM EDT**

History of Quantum Computing  
and Motivation for Quantum  
Simulation - Part 1

*Speaker: Olivia Lanes*

**1:00 PM EDT**

History of Quantum Computing  
and Motivation for Quantum  
Simulation - Part 2

*Speaker: Olivia Lanes*

**3:00 PM EDT**

Live Q&A Session with  
Olivia Lanes

**JULY 19**  
**Tuesday**

**9:00 AM EDT**

Introduction to Linear Algebra,  
Prerequisite Mathematics, and  
Circuit Composition - Part 1

*Speaker: Maria Violaris*

**11:00 AM EDT**

Introduction to Linear Algebra,  
Prerequisite Mathematics, and  
Circuit Composition – Part 2

*Speaker: Maria Violaris*

**1:00 PM EDT**

Live Q&A Session with  
Maria Violaris

**3:00 PM EDT**

Lab 1: Introduction to Circuit  
Composition and Cost  
Marcel Pfaffhauser

**JULY 20**  
**Wednesday**

**9:00 AM EDT**

Hamiltonian Time Evolution -  
Part 1

*Speaker: Maria Violaris*

**11:00 AM EDT**

Hamiltonian Time Evolution -  
Part 2

*Speaker: Maria Violaris*

**1:00 PM EDT**

Live Q&A Session with  
Maria Violaris

**JULY 21**  
**Thursday**

**9:00 AM EDT**

Simulation Problems - Part 1

*Speaker: Jeffrey Cohn*

**11:00 AM EDT**

Simulation Problems - Part 2

*Speaker: Jeffrey Cohn*

**1:00 PM EDT**

Live Q&A Session with  
Jeffrey Cohn

**3:00 PM EDT**

Lab 2: Advanced Circuits  
Mirko Amico

**JULY 22**  
**Friday**

**9:00 AM EDT**

Noisy Real Hardware - Noise in  
Quantum Computers - Part 1

*Speaker: Zlatko Minev*

**10:45 AM EDT**

Noisy Real Hardware - Noise in  
Quantum Computers - Part 2

*Speaker: Zlatko Minev*

**12:30 PM EDT**

Noisy Real Hardware - Noise in  
Quantum Computers - Part 3

*Speaker: Zlatko Minev*

**2:00 PM EDT**

Live Q&A Session with  
Zlatko Minev

## Week 2 Schedule

### JULY 25 Monday

#### 9:00 AM EDT

Broad Overview of Quantum Chemistry Simulation and Why it is a Challenge - Part 1  
*Speaker: Panos Barkoutsos*

#### 11:00 AM EDT

Broad Overview of Quantum Chemistry Simulation and Why it is a Challenge - Part 2  
*Speaker: Panos Barkoutsos*

#### 1:00 PM EDT

Get more involved in the Community with Abby Mitchell

#### 3:00 PM EDT

Lab 3: Quantum Noise  
Mirko Amico

### JULY 26 Tuesday

#### 9:00 AM EDT

Methods for Quantum Simulation - Part 1  
*Speaker: Yukio Kawashima*

#### 11:00 AM EDT

Methods for Quantum Simulation - Part 2  
*Speaker: Yukio Kawashima*

#### 1:00 PM EDT

Live Q&A Session with Yukio Kawashima

### JULY 27 Wednesday

#### 9:00 AM EDT

Quantum Static Simulation  
*Speaker: Ieva Liepuoniute*

#### 11:00 AM EDT

Live Q&A Session with Pauline Ollitrault

#### 1:00 PM EDT

Lab 4: Simulate a Quantum Spin-1/2 Model with Alexander Rasmusson

### JULY 28 Thursday

#### 9:00 AM EDT

Quantum Dynamics - Part 1  
*Speaker: Alexander Miessen*

#### 10:45 AM EDT

Quantum Dynamics - Part 2  
*Speaker: Alexander Miessen*

#### 12:30 PM EDT

Quantum Dynamics - Part 3  
*Speaker: Alexander Miessen*

#### 2:00 PM EDT

Q&A Session with Alexander Miessen

### JULY 29 Friday

#### 11:00 AM EDT

Commencement & Panel