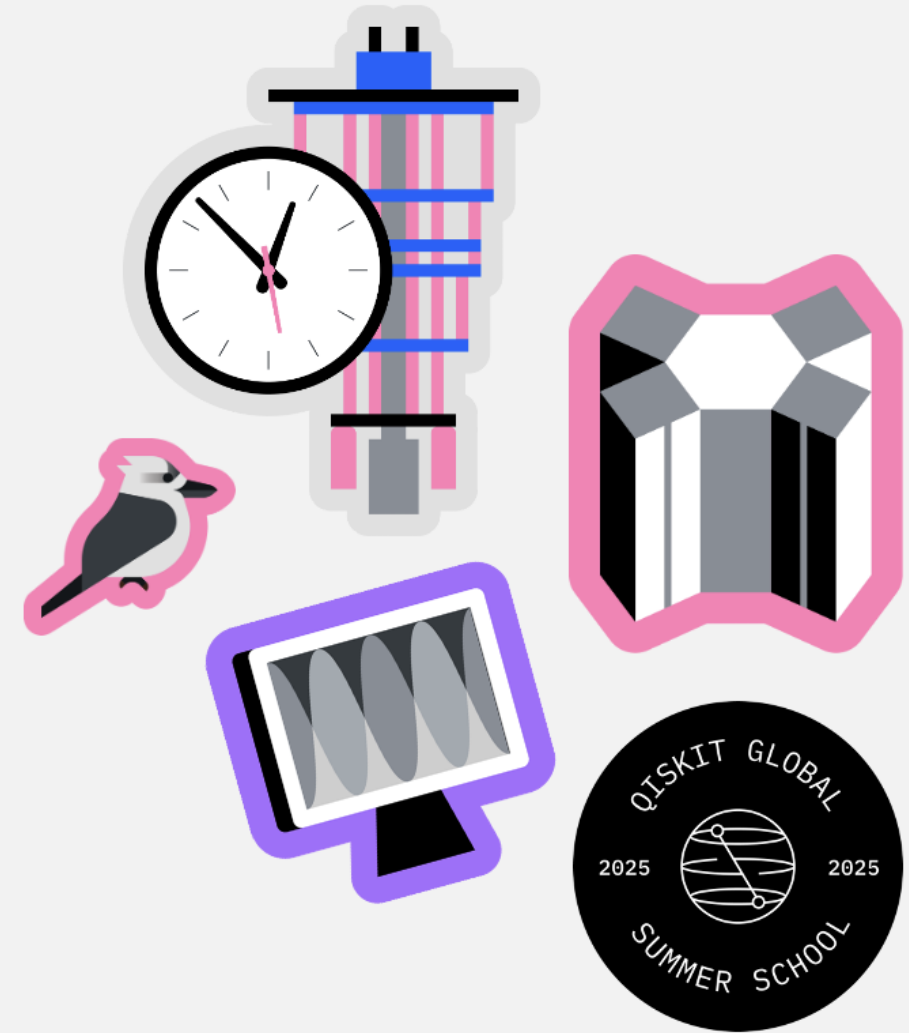


Closing Remarks


Jerry Chow

Continue Your
Quantum Journey
beyond QGSS

Junye Huang



We love your enthusiasms!



Pedro José Morillas Rosa · 1st
Physicist | Engineer | Science Educator | Dedicated Learner | Editor | Per...
18h · 🌐

Quantum Unveiled: A Deep Dive into Error Correction and the Future of Computing! 🚀 ...more

Check your submission status with the code below

```
from qc_grader.grader.grade import check_lab_completion_status


check_lab_completion_status("qgss_2025")
```

Lab 0: 2/2 exercises completed (100%)
✓ 2036 participants have completed this lab
Lab 1: 9/9 exercises completed (100%)
✓ 1375 participants have completed this lab
Lab 2: 7/7 exercises completed (100%)
✓ 649 participants have completed this lab
Lab 3: 5/5 exercises completed (100%)
✓ 301 participants have completed this lab
Lab 4: 6/6 exercises completed (100%)
✓ 6 participants have completed this lab
Functions Labs: 0/8 exercises completed (0%)
✓ 1 participants have completed this lab

Lab 4: Quantum Error Correction: From Core Concepts to the Road to Fault-Tolerant Quantum Computing

You and 32 others

Celebrate Comment Reply



Sanya Nanda · 1st
SDE @JP Morgan Chase & Co. | GSoC'24 @ ML4Sci | AWS Developer As...
5d · 🌐

#Qiskit Global Summer School 2025: The Past, Present, and Future of Quantum Computing; is a special edition in honor of the International Year of Quantum Science and Technology.

In Lab 1, we weren't just learning history, we were recreating it. It's surreal to revisit over a century of physics from the convenience of a personal device!

From the iconic double-slit experiment to Bell's inequality, we recreated some of the most celebrated quantum experiments using simulators and real quantum hardware. Below are some fascinating insights I gathered along the way.

#Qiskit #QuantumComputing #QGSS25

Learning from Lab 1 · 4 pages
Summer School 2025


Lab 1: Recreating famous experiments at home using Qiskit!

Erwin Schrödinger in 1935 with the famous thought experiment known as **Schrödinger's Cat**, where a cat can be both alive and dead (in **superposition**) until someone opens the box to check.

Measurement in quantum mechanics doesn't just observe reality, it shapes it.

You and 57 others

Love Comment Repost Send



Pujan Pandey · 1st
Participant – Qiskit Global Summer School 2025 | Python | Machine Lear...
3d · Edited · 🌐


🚀 Day 5 of Qiskit Global Summer School 2025: Completed!
Session marked a huge milestone in my quantum journey — I wrapped up Practical Quantum Algorithms & Techniques!

- Implemented real-world quantum algorithms
- Explored practical use-cases in chemistry, optimization, and machine learning
- Learned how noise and hardware constraints impact algorithm performance
- Hands-on practice with Qiskit's powerful tools for real-device simulations

Every gate and circuit I build is bringing quantum computing closer to reality for me.
This experience is shaping me to think quantum-first — beyond classical limits.
Ready to take on the next phase!
#QGSS2025 #QuantumComputing #Qiskit #IBMQQuantum #QuantumFuture #!

Practical Quantum Algorithms

Friday, July 11




Ethan Elliot Rajkumar · 3h

You want to align with company values and doing your homework is super important. I love IBM's quantum computing community because every time I reach out they are super helpful (after doing some homework myself and putting time and effort into my texting) and I know that I can be steered in the right direction.

3 🌟





Daglio Matias · 8/7/25, 14:26

Shout out to whoever this user is, pretty funny on today's lecture

KG KARNA GHOSE · 2m

Life is hard and sad, at least this matrix is diagonalizable :)

4 🌟 1 🌟

4 🌟 3 🌟




Fireflyer · 8/7/25, 16:06
unlucky ig

Open the box

"The probability of cat is happy: 99%"
"The observed cat is: grumpy"

18 🌟 1 🌟 1 🌟



Daiki Murata · 1st
IBM - Architect | AI for SDLC | Qiskit | 1d · 🌐

Hosted a #QGSS2025 event in Japan!

This time, we had a bunch of experienced into a super focused, hands-on lab! Love deep in the zone.

Really looking forward to keeping the local quantum scene growing here in Japan.
Huge thanks to everyone who joined, and special thanks to Kifumi Numata, Yuri K. for the support!

#qiskit #QiskitGlobalSummerSchool #IBM #quantumcomputing

You and 37 others

2 comments · 1 repost


Love Comment Repost Send



Omer Subasi · 3h

@Chiara Decaroli if I want to be part of IBM, it is not about the company, I just want to be around people work there. It is really about the people who are brilliant and caring. It is about spending time with them to me.

4 🌟



Harry Munroe · 1st
Engagement Leader, IBM Innovation Studio D.C. | IBM Quantum Ambassa...
1w · 🌐

🚀 We just wrapped Day 1 of the Qiskit Global Summer School 2025!
I was lucky to be a mentor for this year's program, which drew over 8,000 registrants—so much interest that we had to close sign-ups early! ...more

We had a huge amount of popularity and demand for this.

You and 35 others

1 comment · 3 reposts

Love Comment Repost Send



Mauricio · 15/7/25, 22:46

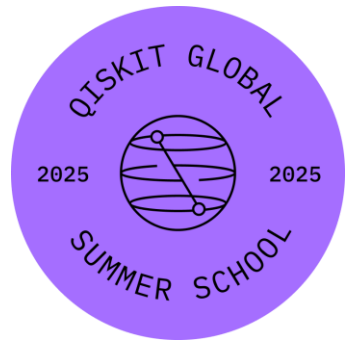
from the early QGSS25, lab2ex4 ptsd (edited)

WHEN YOU REACH LAB3EX4

Ah s---, here we go again.

3 🌟 15 🌟 6 🌟 2 🌟 3 🌟 3 🌟

Certificates and Badges



Lab work will be assigned throughout the Summer School as Jupyter notebook exercises. The notebooks must be completed and submitted following the Summer School **no later than Wednesday, July 23rd (12:00 PM EDT)**

You must complete at least ONE core lab to receive a Certificate of Participation.

ALL FOUR core labs (Lab 1-4) must be completed to receive a badge of Quantum Excellence.

IMPORTANT NOTE! You have the option to submit your notebook multiple times

Support & Collaboration

Channels will be filled with IBMers to help answer questions throughout the weekdays of the Summer School course. Students are also strongly encouraged to set up or join a “study group” to foster group-work and build connections throughout the program.

Labs will not be reviewed during the lecture(s), so take the time to sit down and review your work. For the best experience, work with your study group to view lab session content and application exercise.

Please submit your badge and certificate request [here](#) by Friday, August 1.

coming soon!

IBM Certified Quantum Computation using Qiskit v2.X Developer

IBM Quantum

The new Qiskit certification will be launching on IBM Training very soon!



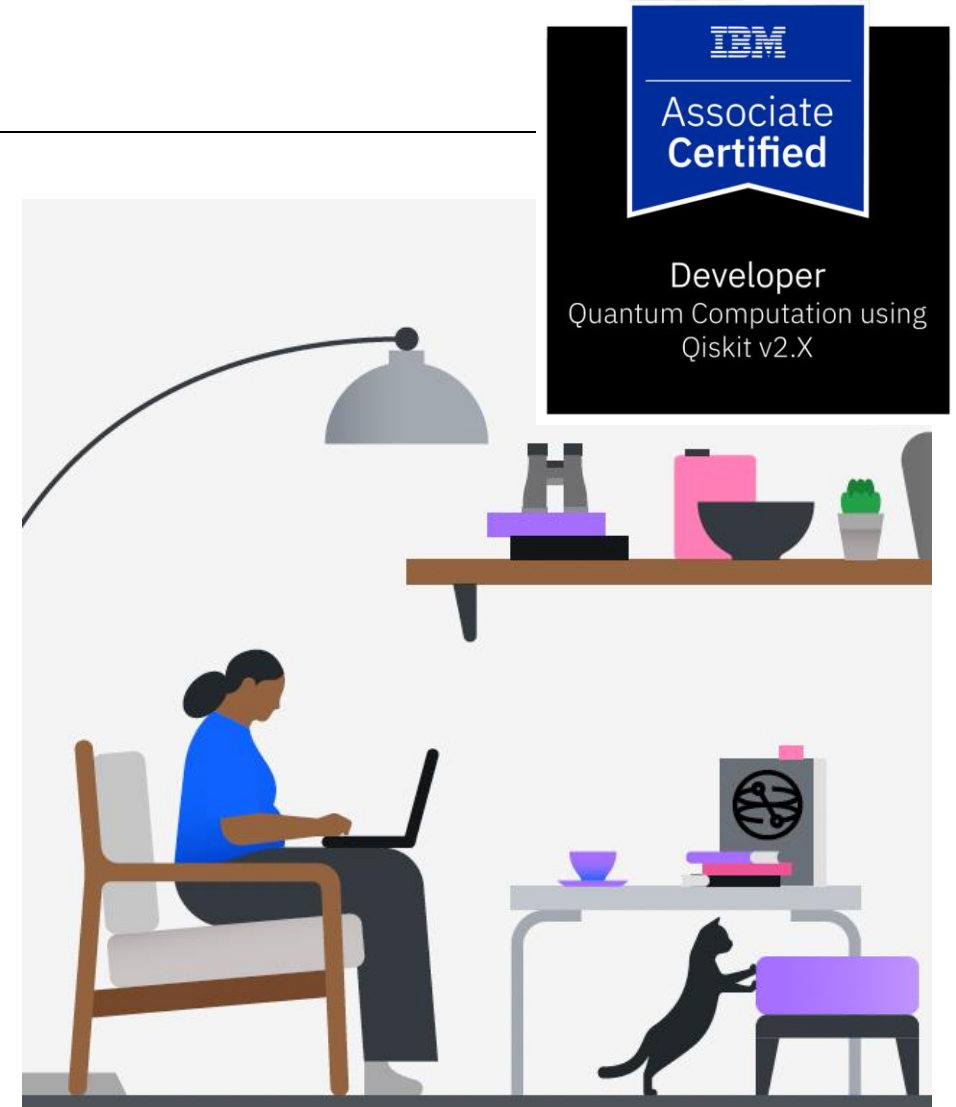
By earning the new IBM certification you will be validating your [Qiskit 2.X](#) skills. The exam will cover such topics as *performing quantum operations*, *creating quantum circuits*, as well as *running quantum circuits*.



Testing is available either at an in-person [Pearson VUE® Authorized Test Center](#) or online with [OnVUE](#).



A free [study guide](#) and [sample test](#) will both be made available through IBM Training. The study guide will provide a breakdown of topics along with study resources.



Qiskit Advocate Program

The Qiskit advocate program is an external, global initiative that empowers and enables aspiring leaders in the Qiskit open-source community.

Through this program, Qiskit advocates enhance their professional growth by:

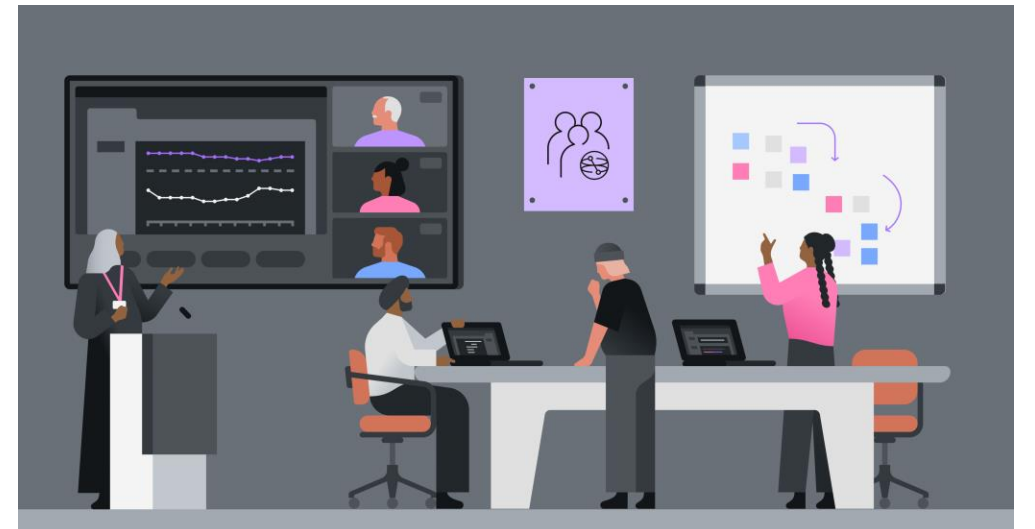
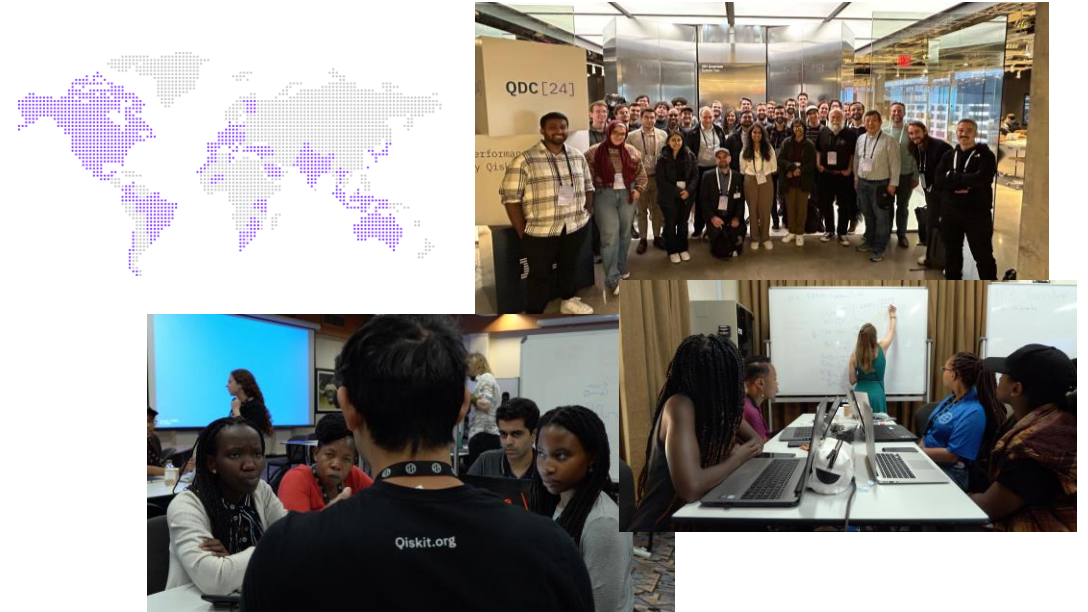
- building meaningful connections with experts and peers
- gaining exclusive access to Qiskit education and events,
- getting unique opportunities to contribute to the advancement of quantum computing
- and so much more.

If you earn the Quantum Excellence badge for QGSS 2025 you will automatically be eligible to apply!

Applications open on 28 July!

Register your interest in being notified when applications are open:
qiskit.it/advocates2025

(Link also available in #announcements in the QGSS Discord server.



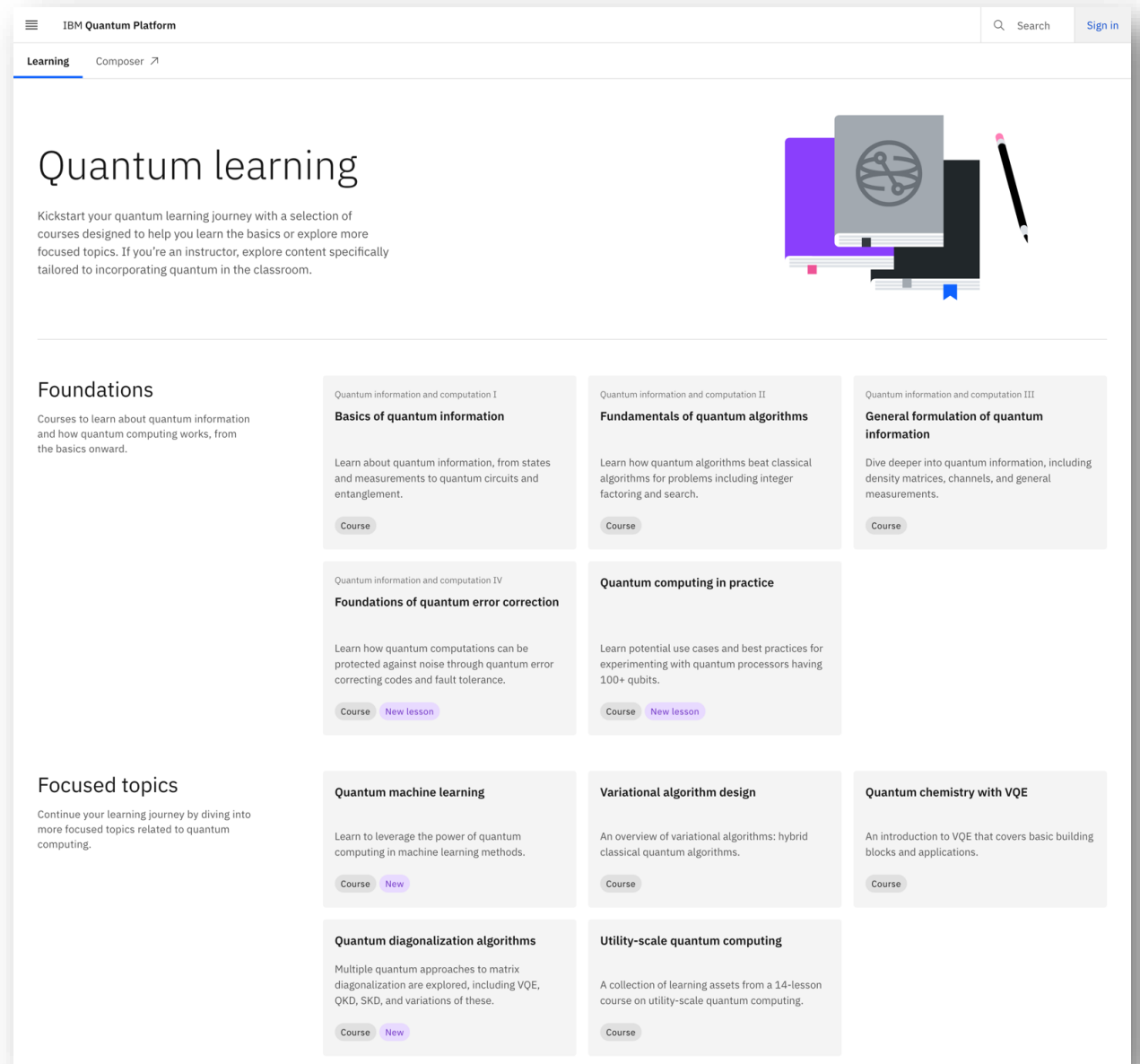
IBM Quantum Learning

[Access](#) to courses and tutorials (on docs). Course topics include:

- Basics of quantum information
- Fundamentals of quantum algorithms
- Variational algorithm design
- Utility-scale quantum computing

Get Started Today ↓

<https://quantum.cloud.ibm.com/learning/>




The screenshot shows the IBM Quantum Platform Learning page. At the top, there's a navigation bar with the IBM Quantum Platform logo, a search bar, and a 'Sign in' button. Below the navigation bar, the 'Learning' tab is selected, and the 'Composer' link is visible. The main heading is 'Quantum learning', followed by a subtext: 'Kickstart your quantum learning journey with a selection of courses designed to help you learn the basics or explore more focused topics. If you're an instructor, explore content specifically tailored to incorporating quantum in the classroom.' To the right of the text is an illustration of books and a pencil. Below this, the page is organized into sections: 'Foundations' (Courses to learn about quantum information and how quantum computing works, from the basics onward), 'Focused topics' (Continue your learning journey by diving into more focused topics related to quantum computing), and a grid of course cards. The course cards are: 'Basics of quantum information' (Quantum information and computation I), 'Fundamentals of quantum algorithms' (Quantum information and computation II), 'General formulation of quantum information' (Quantum information and computation III), 'Foundations of quantum error correction' (Quantum information and computation IV), 'Quantum computing in practice' (Quantum information and computation V), 'Quantum machine learning' (Quantum machine learning), 'Variational algorithm design' (Variational algorithm design), 'Quantum chemistry with VQE' (Quantum chemistry with VQE), 'Quantum diagonalization algorithms' (Quantum diagonalization algorithms), and 'Utility-scale quantum computing' (Utility-scale quantum computing). Each card includes a brief description and a 'Course' button, with some cards also having a 'New lesson' button.

IBM Quantum Platform

Learning Composer ↗

Quantum learning

Kickstart your quantum learning journey with a selection of courses designed to help you learn the basics or explore more focused topics. If you're an instructor, explore content specifically tailored to incorporating quantum in the classroom.



Foundations

Courses to learn about quantum information and how quantum computing works, from the basics onward.

- Basics of quantum information**
Quantum information and computation I
Learn about quantum information, from states and measurements to quantum circuits and entanglement.
[Course](#)
- Fundamentals of quantum algorithms**
Quantum information and computation II
Learn how quantum algorithms beat classical algorithms for problems including integer factoring and search.
[Course](#)
- General formulation of quantum information**
Quantum information and computation III
Dive deeper into quantum information, including density matrices, channels, and general measurements.
[Course](#)
- Foundations of quantum error correction**
Quantum information and computation IV
Learn how quantum computations can be protected against noise through quantum error correcting codes and fault tolerance.
[Course](#) [New lesson](#)
- Quantum computing in practice**
Quantum information and computation V
Learn potential use cases and best practices for experimenting with quantum processors having 100+ qubits.
[Course](#) [New lesson](#)

Focused topics

Continue your learning journey by diving into more focused topics related to quantum computing.

- Quantum machine learning**
Learn to leverage the power of quantum computing in machine learning methods.
[Course](#) [New](#)
- Variational algorithm design**
An overview of variational algorithms: hybrid classical quantum algorithms.
[Course](#)
- Quantum chemistry with VQE**
An introduction to VQE that covers basic building blocks and applications.
[Course](#)
- Quantum diagonalization algorithms**
Multiple quantum approaches to matrix diagonalization are explored, including VQE, QKD, SKD, and variations of these.
[Course](#) [New](#)
- Utility-scale quantum computing**
A collection of learning assets from a 14-lesson course on utility-scale quantum computing.
[Course](#)

Qiskit YouTube



Qiskit

@qiskit • 174K subscribers • 608 videos

The world's most popular software for quantum computing. ...more

ibm.com/quantum/qiskit

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What Is Quantum Computing?

► Play all

Welcome to "What Is Quantum Computing?" Here, Olivia Lanes will break down the answers to some of the internet's most common, quantum questions, organized by technical difficulty. This...

What is Quantum Advantage?
13:01
Qiskit • 23K views • 3 months ago

What is quantum computing?
8:11
Qiskit • 9.3K views • 3 months ago

What is quantum computing?
Qiskit • 5.7K views • 3 months ago

Quantum Computing in Practice

► Play all

Many videos on quantum computing focus on their theoretical concepts or future potential, but in this series, Dr. Olivia Lanes will show you how to use a quantum computer that exists right now to...

Quantum Computing in practice
0:25
Qiskit • 13K views • 1 year ago

Quantum Computing in practice
23:15
Qiskit • 86K views • 1 year ago

Quantum Computing in practice
26:51
Qiskit • 27K views • 1 year ago

Quantum Computing in practice
32:31
Qiskit • 14K views • 9 months ago

Quantum Computing in practice
30:14
Qiskit • 16K views • 8 months ago

Quantum Computing in practice
28:52
Qiskit • 7.1K views • 1 month ago

Coding With Qiskit - 1.x

► Play all

Welcome back to Coding with Qiskit! Join research scientist Dr. Derek Wang as he walks you through the exciting capabilities of Qiskit 1 for utility scale quantum computing. He'll show you h...

Coding with Qiskit 1.x Series Announcement
1:01
Qiskit • 38K views • 1 year ago

EP 1 Introduction to Qiskit | Coding with Qiskit 1.x |...
3:51
Qiskit • 45K views • 1 year ago

EP 2 How to Install Qiskit | Coding with Qiskit 1.x | Programmi...
Qiskit • 107K views • 1 year ago

Quantum Crosstalk

► Play all

The short form show where we sit down with influential members of IBM's quantum team and discuss the latest happenings, events, and product releases.

QUANTUM CROSSTALK
30:13
Qiskit • 2.3K views • 10 months ago

QUANTUM CROSSTALK
28:40
Qiskit • 7.7K views • 10 months ago

QUANTUM CROSSTALK
23:44
Qiskit • 4.4K views • 1 year ago

QUANTUM CROSSTALK
22:23
Qiskit • 2.4K views • 1 year ago

QUANTUM CROSSTALK
23:06
Qiskit • 3.3K views • 1 year ago

QUANTUM CROSSTALK
14:51
Qiskit • 5.9K views • 1 year ago

New weekly videos for everyone, from explorers to experts, including these series:

- What Is Quantum Computing?
- Coding with Qiskit
- Quantum Computing in Practice

QGSS lectures will be posted starting in August.

Be sure to like and subscribe to get notified when new videos are posted.

A red rectangular button with a white play button icon and the word "SUBSCRIBE" in white capital letters. To the right of the button is a red bell icon with a small circle above it, indicating notifications.

Qiskit Global Summer School2025

7

Stay Connected



<https://www.linkedin.com/showcase/ibm-quantum/>



<https://qiskit.com/join-slack>

Thank you again for
participating in #QGSS25!

Hope to see you soon!