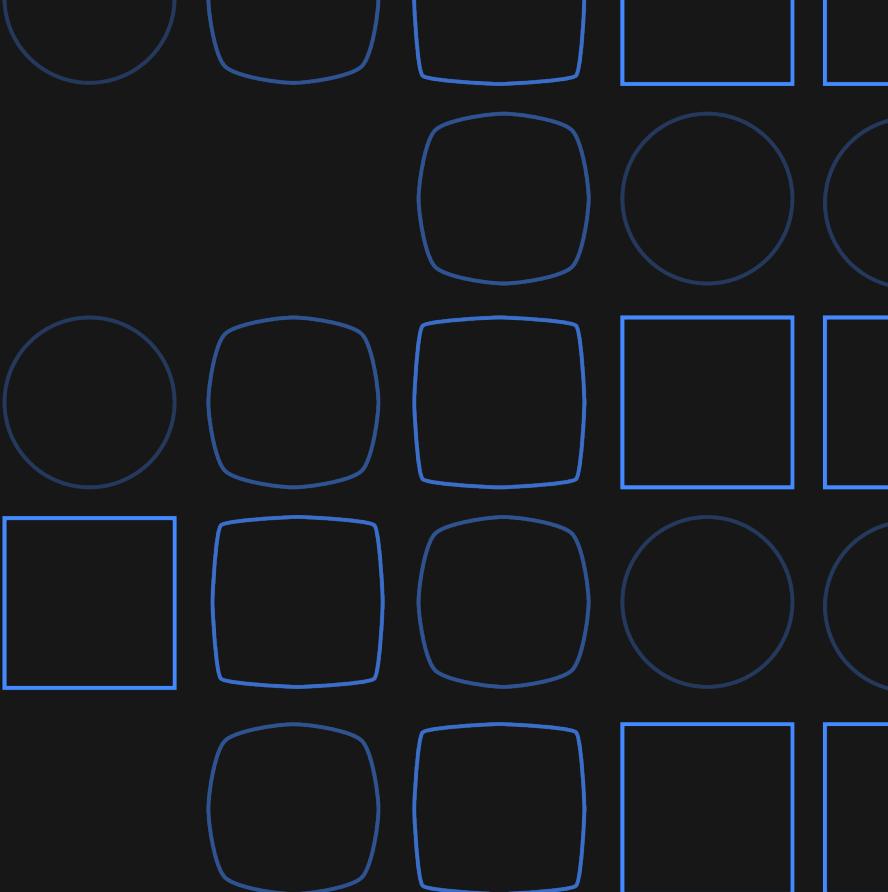


Qiskit community

Junye Huang

Quantum Developer Advocate



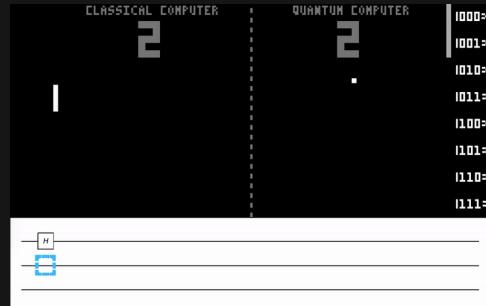
About me

IBM Quantum Developer Advocate

- Promote quantum education in Asia Pacific
- Conduct quantum talks and workshops
- Organize hackathons and game jams
- Develop open source quantum education projects



[Qiskit hackathon @ SG \(with CQT\)](#)



[QPong](#)



[@HuangJunye](#)

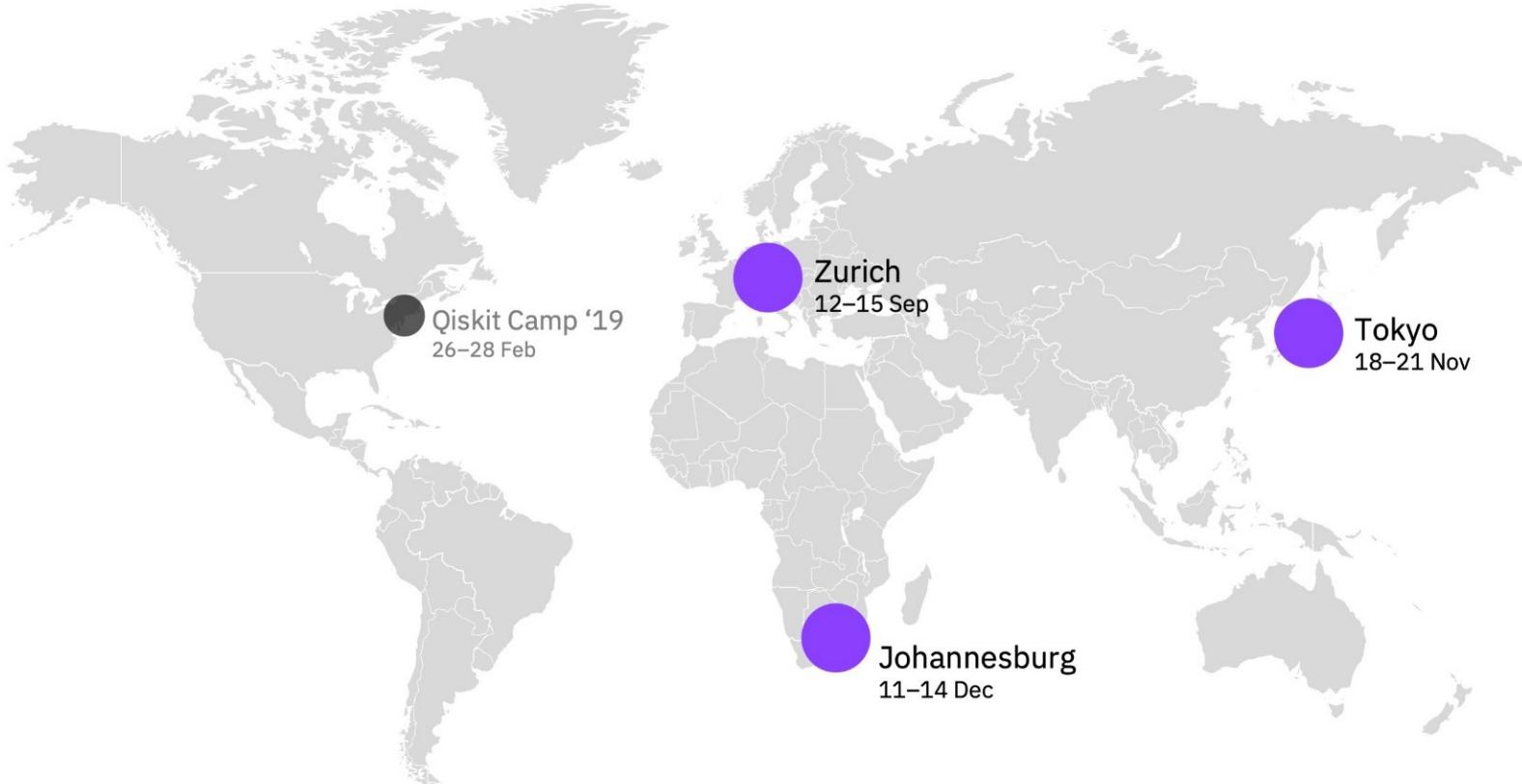
Overview

- Qiskit Camps
- Qiskit Hackathons
- Qiskit Advocates program
- Qiskit Virtual Events
- IBM Q Network

Qiskit Camps

IBM Quantum





Oiskit Hackathons

IBM Quantum

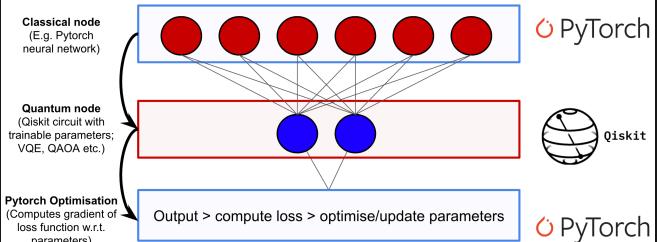


Community Projects



QPong

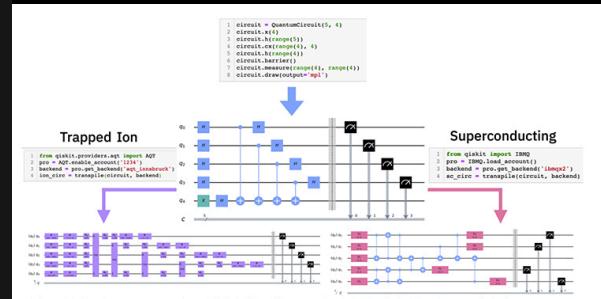
Hybrid quantum-classical Neural Networks with PyTorch and Qiskit



QizGloria

Quantum Computing

Qiskit – Write once, target multiple architectures



Ion Trap + Circuit Rewriting

YouTube Feature

Quantum Arcade machine
EU Quantum Flagship Exhibition

Qiskit textbook chapter

Integrated in Qiskit Terra
Trapped ion backend

Qiskit Advocates

100+ active community members around the world

IBMer



Robert Loredo
USA



Michele Grossi
Italy



Huang Junye
Singapore



James Wootton
Switzerland



Kifumi Numata
Japan

Non-IBMer



Samanvay Sharma
India



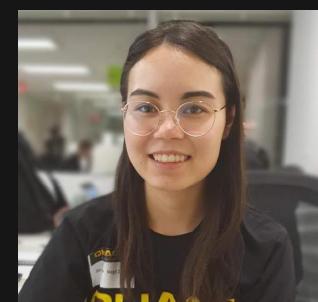
Vicente Pina Canelles
Spain



Amira Abbas
South Africa



Jack Woehr
USA



Desreee Vogt-Lee
Australia

Qiskit Advocates: Highlight



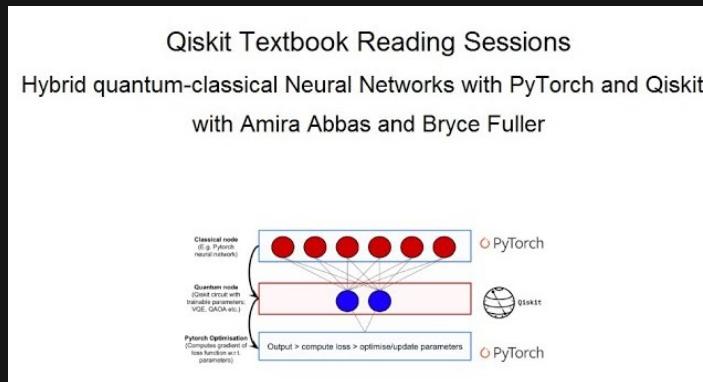
@IndiQmeetups
<https://indiq.org/>



Samanvay Sharma



IndiQ meetups



Qiskit textbook reading



Quantum game jam

IBM Quantum Challenge

4th anniversary of IBM Quantum Experience

4 quantum programming exercises to solve within 4 days (May 4-8)

Ex1: quantum circuits basics

Ex2: error mitigation using Qiskit Ignis

Ex3: BB84 quantum cryptography protocol

Ex4: circuit transpilation optimization

Participants

1745

Countries

45

Quantum systems

Quantum circuits

18

1B/day

IBM Quantum

AJ Rasmusson
@aj_rasmus

@IBMResearch Tommy (2 years old) and I are working on the 2020 IBM qc challenge together. Thanks @csferrie for the great reference text!! #quantumphysicsforbabies #qiskit #QuantumComputing



3:44 am · 5 May 2020 · Twitter for Android

8 Retweets 42 Likes

Kiran | Johns
@theronjohnson

Me after #IBMQuantumChallenge ended



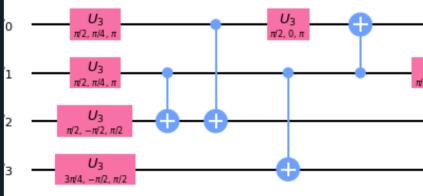
10:56 pm · 8 May 2020 · Twitter for Android

1 Retweet 8 Likes

IBM Quantum / Qiskit Workshop / May 18, 2020 / © 2020 IBM Corporation

Carlo Cascio
@casciocarlo

I always wanted to try to write a blog post. The IBM Quantum Challenge gave me the topic and the motivation :) #quantum #ibmquantumchallenge



IBM Quantum Challenge 2020: my approach to get the magic 46!

A place where words matter

link.remedium.com

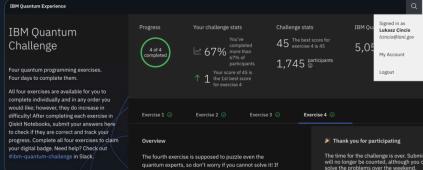
3:32 pm · 14 May 2020 · Twitter for Android

15 Retweets 95 Likes

Patrick Coles
@PatrickColes314

My coworker Lukasz Cincio completed exercise 4 with a top score of 45. Lukasz used the machine-learning approach outlined in our paper:

arxiv.org/abs/1803.04114. Thanks to IBM for this exciting challenge #IBMQuantumChallenge
@ElisaBaumer @abe_asfaw



11:26 pm · 8 May 2020 · Twitter Web App

33 Retweets 135 Likes

Frederico Muñoz
@fredericomunoz

Add to be done :D Congrats for the scope, looking forward to read the detailed explanation
#IBMQuantumChallenge

Join the IBM Quantum Challenge

Do the intro and BB84 quantum crypto, get badged.

Understanding what's waked for circuit decomposition

Simplify the circuit and getting an advanced badge

Finding a quantum circuit decomposition lower than the target answer

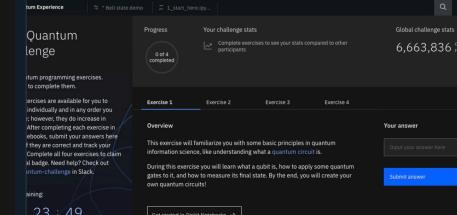


Kyungjoo Noh
@kyungjoo_noah

My partner @sunnieuhyoung (who hasn't taken physics courses since high school) is killing it so far. Clearly I've talked too much about #QuantumComputing (more than she wanted me to..) and it's paying off!

Hanhee Paik @HanheePaik · 4 May

IBM Quantum Challenge has started; go to ibm.co/quantumchallenge to join! May the fourth be with you!



6:56 am · 5 May 2020 · Twitter for Android

1 Retweet 17 Likes

Luciano Pereira Valenzuela
@Luplaciango

I did not sleep, but I made it. It was a great and fun challenge! #IBMQuantumChallenge



9:51 pm · 8 May 2020 · Twitter Web App

23 Retweets 148 Likes

Qiskit Virtual Events

Coding with Qiskit series



Circuit sessions: every Wednesday



1 Minute Qiskit: every Monday



Seminar series: every Friday



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[Medium](#)