

Summary of Q³ Qompute

Report compiled by Sandra Al Hames

QEE Founder and President

Qompute 2025 Lead Organizer



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What is the Q³ Initiative?



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- One year long quantum education initiative
 - Founded in September 2024 by Anjolie Tuazon and Sandra Al Hames
- Joint collaboration between the Center for Quantum Networks, United Nations ITU, and more!
 - Hosted at UMD at USC on 9/12-9/14
- Q³ = < Science | Ethics | Art >
- Q³ at UMD: Qcreate (Art)
- Q³ at USC: Qcompute (Science and Ethics)

q3initiative.org

What is the Q³ Initiative in Detail?



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After a year of dedicated planning and collaboration, we are proud to share the successful culmination of Q³'s Quantum Hackathon - the first ever quantum hackathon in the region of Southern California. This milestone event was part of a global celebration of the UN-recognized International Year of Quantum Science and Technology, and brought together quantum computing, art, and ethics.

This initiative was more than a hackathon - it was a year-long initiative that created a platform for the exploration, education, and ethical reflection of emerging quantum technologies.

The Qcompute Quantum Hackathon, part of the was a three day long event that fostered learning, networking, and innovation. On day one, we hosted a networking dinner to foster connections between participants, speakers, and organizers across. The second day was dedicated in full to the challenges that made up this hackathon, where teams tackled technical and artistic prompts. Participants had the incredible opportunity to participate in challenges custom developed by IBM Quantum, and worked directly with IBM's quantum computing tools and software for the duration of the event. To wrap up this event, our final day consisted of a speaker series and panel discussion, featuring leading voices in quantum computing, policy, economics, and ethics, including: Adrian Acosta, Kate Pundyk, Dr. Bhaskar Krishnamachari, Dr. Federico Spedalieri, Dr. Florenta Teodoridis, Dr. Rosa Di Felice, and Ricky Young. This final day offered participants insight into how quantum is being applied in industries and academia today, and initiated important conversations about the ethical framework guiding this technology and innovation.

This hackathon would not have been possible without the support of our amazing partners: Center for Quantum Networks, Internal Telecommunication Union (ITU), USC Women in Engineering, USC Shift SC, The Washington Institute for STEM, Entrepreneurship, and Research, and Unitary Foundation!

Bringing this vision to life has been one of the most fulfilling experiences of the past year. To see students push the boundaries of their technical and creative capabilities, while engaging with and exploring the ethical dilemmas and discussions of quantum innovation, was both inspiring and rewarding.

Here's to putting on Southern California's first ever quantum hackathon, and the beginning of more interdisciplinary and ethically-grounded quantum exploration. We're excited to see where this community goes next.

How is the Q³ Initiative year-long?

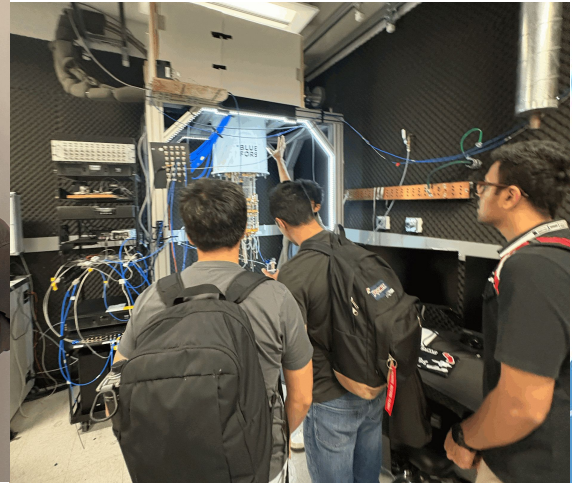


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- Launched September 2024
- Hosted Lab tours February 2025, [click here to view recap video](#)
- Hosted lecture series March 2025
- Hosted office hours, info sessions, and socials from April 2025 to September 2025



Event Timeline

Kick-off Dinner

Friday, 9/12
6:00 - 8:30 PM

Qcompute 2025 Conference

Sunday, 9/14
11:00 AM - 7:00 PM

Challenges Released

Wednesday, 9/10
11:59 PM

Challenges Due

Saturday, 9/13
11:59 PM



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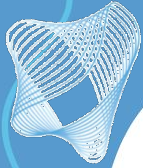


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INTERNATIONAL YEAR OF
Quantum Science
and Technology

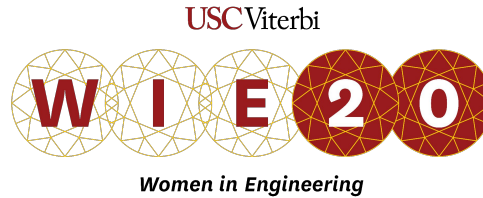
Supporters



Center for
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Qompute Speakers



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Adrian Acosta



Kate Pundyk



Rosa Di Felice



Federico Spedalieri



Florenta Teodoridis



Ricky Young



Bhaskar Krishnamachari

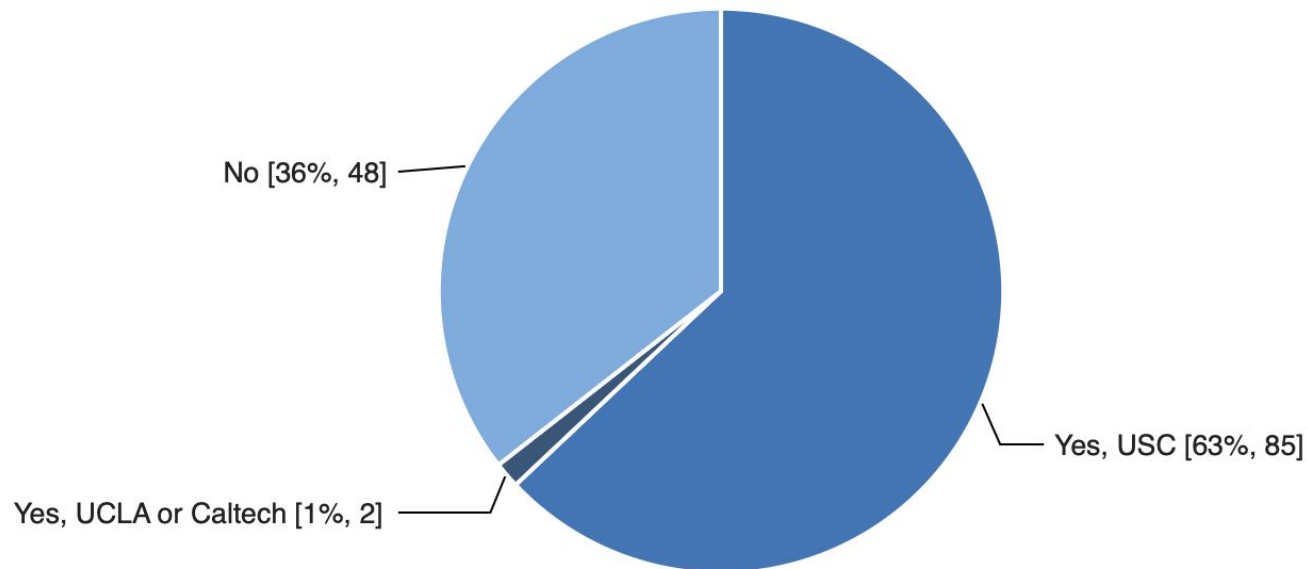
Attendance Demographic



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■ Yes, USC ■ Yes, UCLA or Caltech ■ No

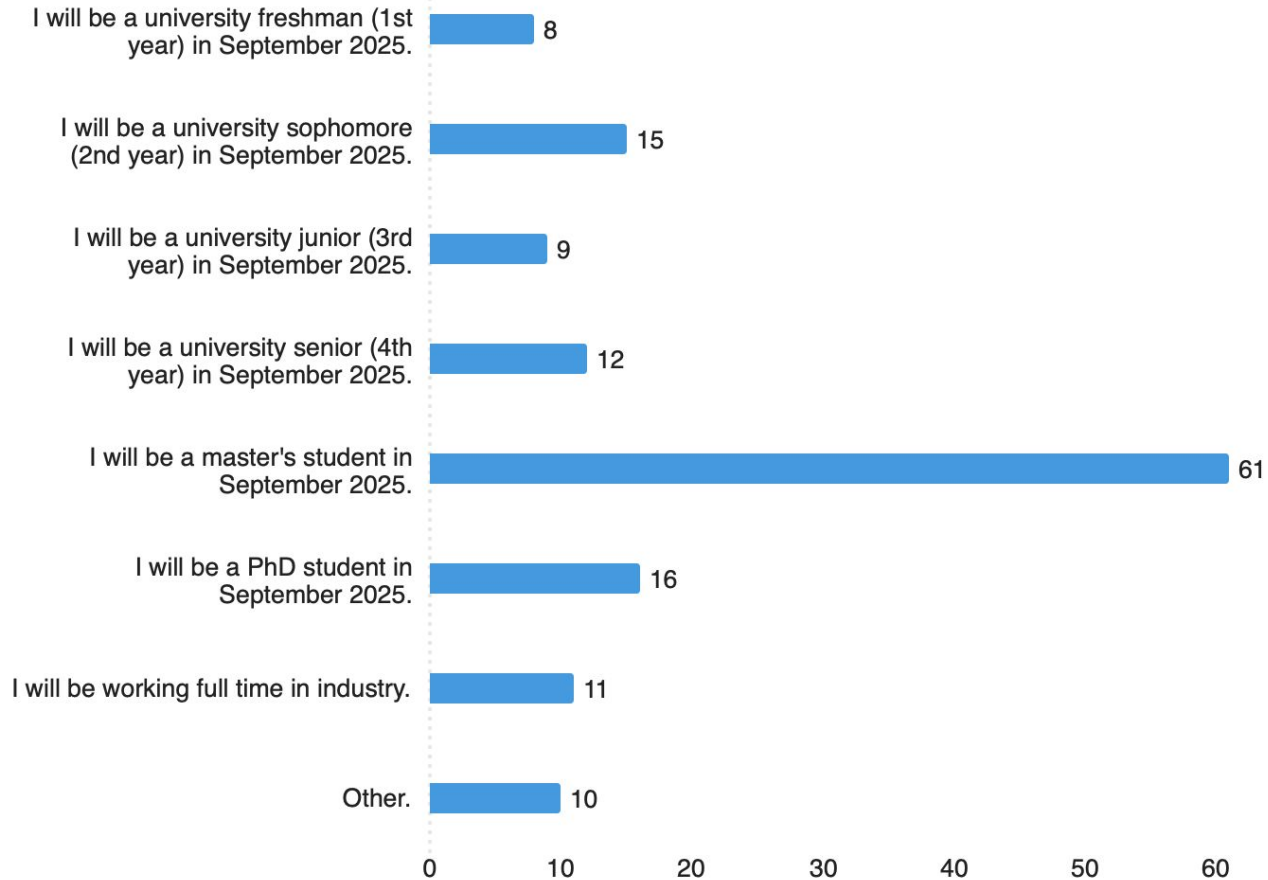
Attendance Demographic

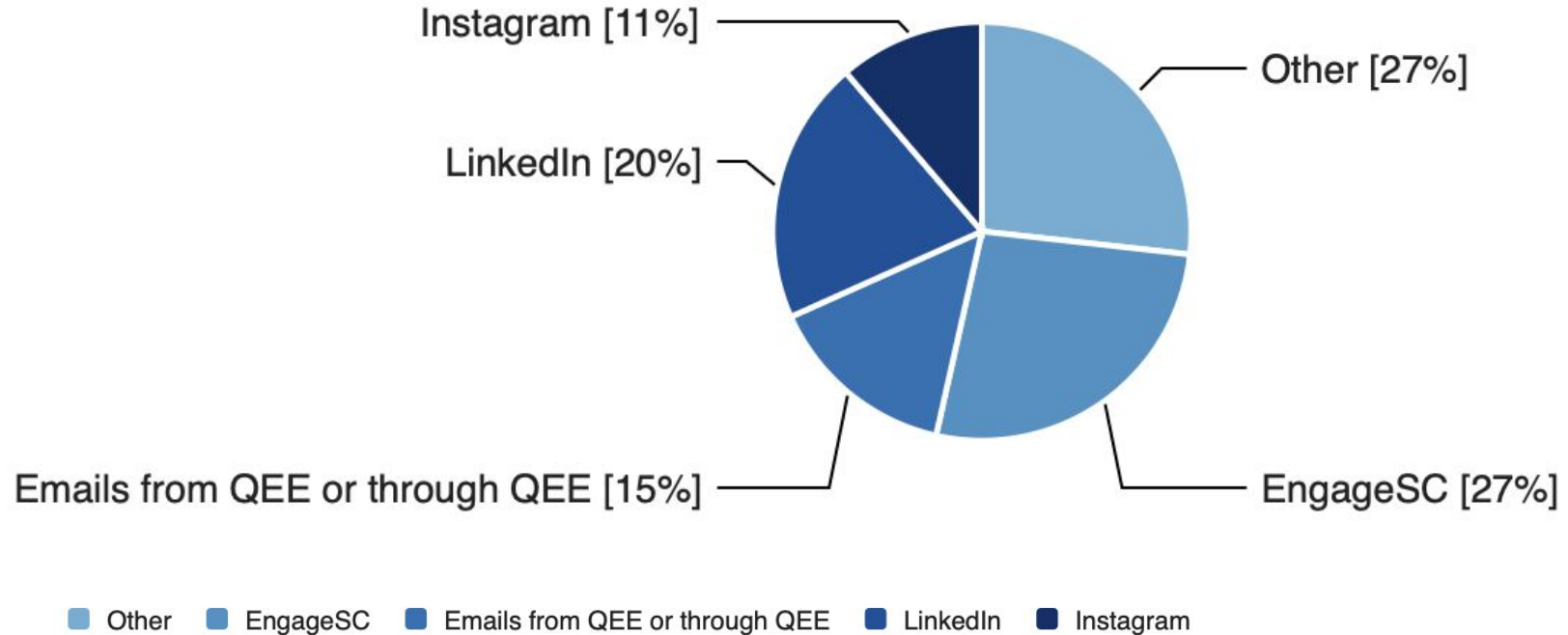


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15 countries reached!

- India
- Egypt
- Algeria
- Australia
- Bangladesh
- Italy
- Iran
- Germany
- Lebanon
- France
- South Korea
- Singapore
- Canada
- Russia

Post-event Feedback Survey



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- Survey sent on 9/18 at 2:00pm
- 75 in-person attendees out of 83 registered
 - Need at least 10% to get an accurate read
- As of 10/19 at 9:00am
 - 16 responses
 - 100% said they would attend another year of Qcompute!! (so far)

Post-event Feedback Survey



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Q12 - How much did you know about quantum BEFORE the Compute 2025 hackathon? (0 b...

Field	Min	Max	Mean	Median	Responses	Sum
Quantum Theory	1.00	11.00	5.43	4.00	14	76.00
Quantum Algorithms	1.00	11.00	5.00	3.50	14	70.00
Quantum Ethics	1.00	11.00	4.50	3.00	14	63.00
Quantum Hardware	1.00	11.00	4.79	3.00	14	67.00

Q14 - How much did you know about quantum AFTER the Compute 2025 hackathon? (0 be...

Field	Min	Max	Mean	Median	Responses	Sum
Quantum Theory	3.00	11.00	6.86	6.00	14	96.00
Quantum Algorithms	2.00	11.00	7.29	7.00	14	102.00
Quantum Ethics	3.00	11.00	7.71	7.50	14	108.00
Quantum Hardware	2.00	11.00	6.43	5.50	14	90.00

26% increase



Quantum Theory

46% increase



Quantum Algorithms

71% increase



Quantum Ethics

34% increase



Quantum Hardware



Questions or comments?

Thank you for watching!

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