



CARNEGIE MELLON QUANTUM COMPUTING CLUB

Sponsorship Packet

About Us

Carnegie Mellon Quantum Computing (QC @ CMU) is CMU's first and only student-led organization dedicated to promoting quantum computing.

The club aims to foster interest, enhance literacy, and encourage research in quantum computing among undergraduate and graduate students.

What We Do

- Host guest speakers from industry and academia.
- Organize workshops and research projects
- Support and participate in Interschool quantum initiatives

Executive Team



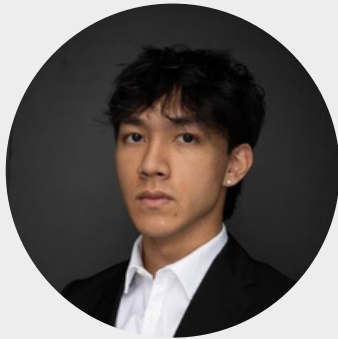
Arul Rhik Mazumder

Founder/President (SCS)



Ryan Wang

Founder/Vice President (IS)



Rohan Jain

Founder (SCS)



Alan Joseph

Officer

Advisors



Elias Towe

Albert and Ethel Grobstein
Professor and University
Professor (ECE/MSE)



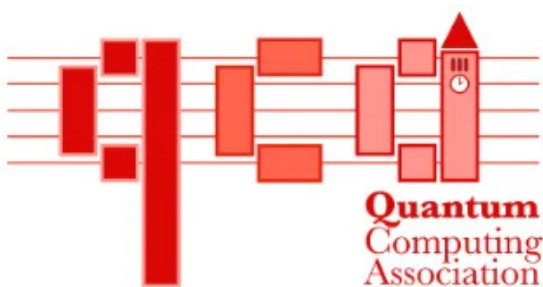
Sridhar Tayur

Ford Distinguished
Research Chair and
University Professor (OR)

Our Stats

- 85 people on mailing list
- 104 members on Discord
- 97 followers on LinkedIn

Our friends beyond CMU



Qiskit Fall Fest

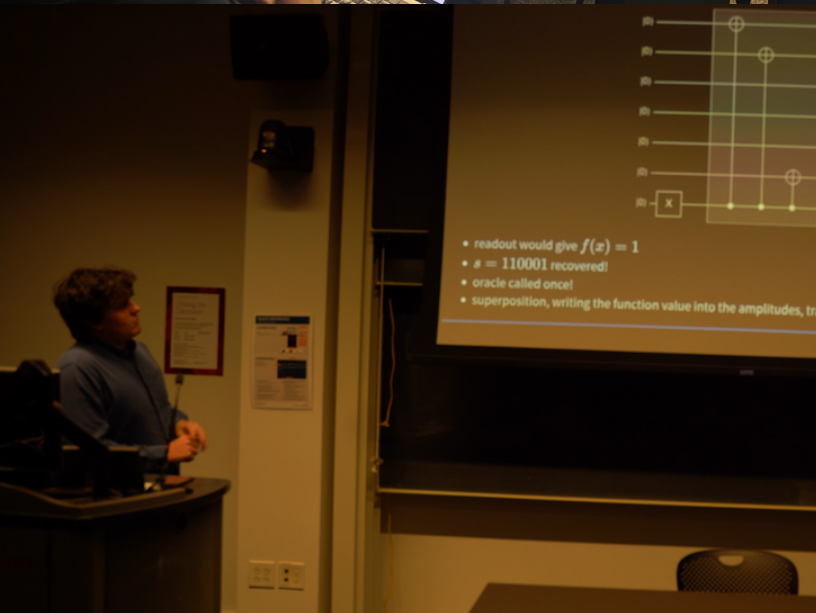
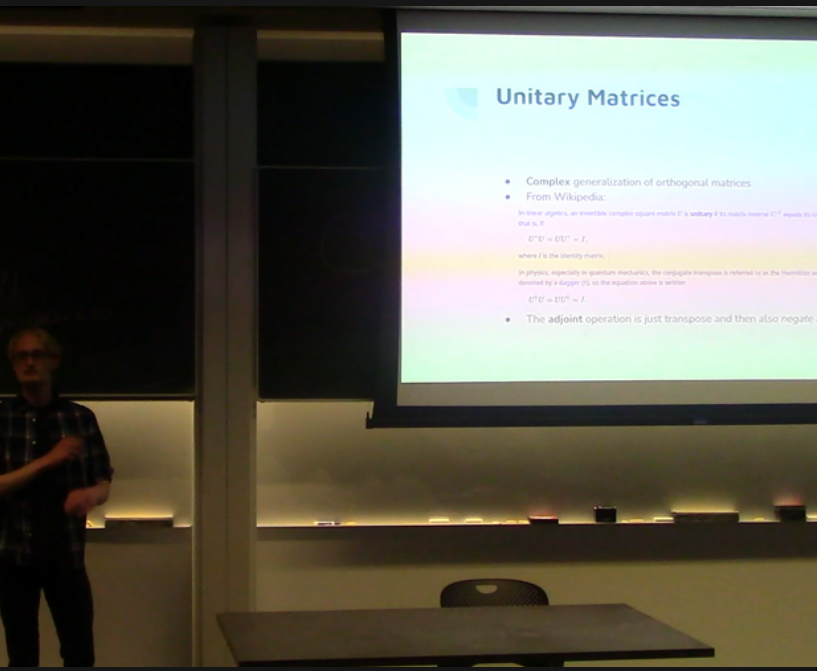
Qiskit Fall Fest was QC@CMU's first and primary campus-wide event, where we introduced quantum computing to our classmates. For several weeks, we engaged participating students and faculty through workshops, coding challenges, and projects



2024 Fall Fest Stats

- Five week program
- Three hackathon notebooks
- 50+ students participating
- 5 guest speakers and lecturers
- 56 prize items provided by IBM





MIT IQuHACK

iQuHACK (Interdisciplinary Quantum HACKathon) is MIT's prestigious annual quantum hackathon. This year, our team consisted of three students from CMU's Quantum Computing club and two members from Cornell's Quantum Computing team.



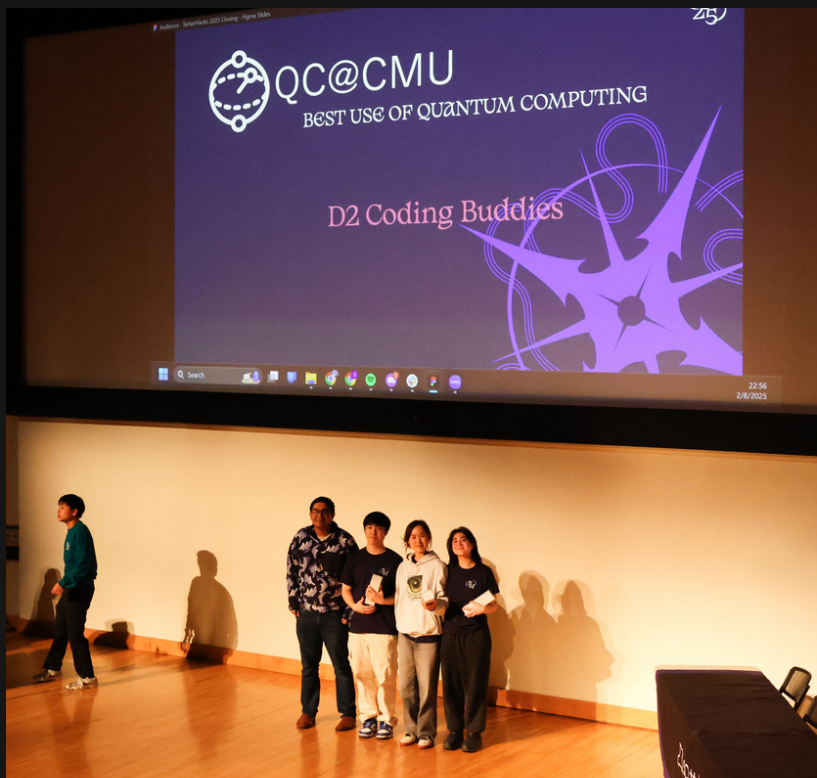
At IQuHACK we:

- participated in the QuEra challenge optimizing instructions for neutral atom computers
- talked and connected with representatives from Quantum Rings, IONQ, QuEra and Alice & Bob
- Established a long-term research project with Cornell



TartanHacks Quantum Track

TartanHacks is the most-attended and longest-running hackathon at CMU and in the Greater Pittsburgh Region. This year, QC@CMU made history by presenting, sponsoring, and judging its very first quantum track.



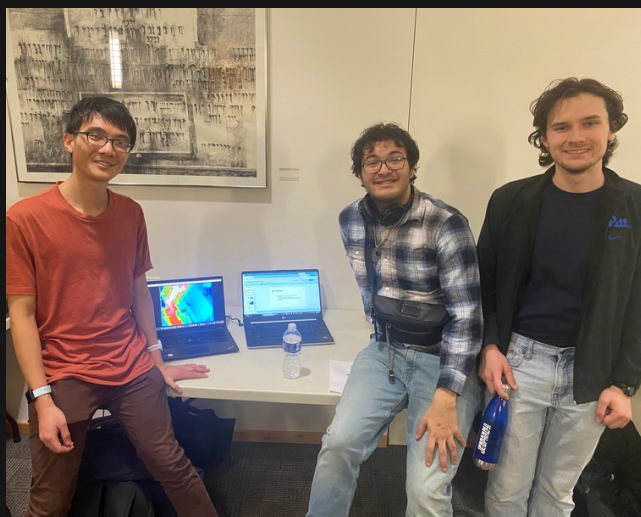
11:00 AM

Sponsor Event: AppLovin (Recruiting)
Connan

Workshop: Quantum Computing Club
Danforth

Quantum Track*

Infuse a quantum-inspired element into their projects!
Whether you're adding a quantum touch to your favorite app or preparing your system for the era of quantum hardware, we want you to push beyond the constraints of classical computing models and explore new possibilities.



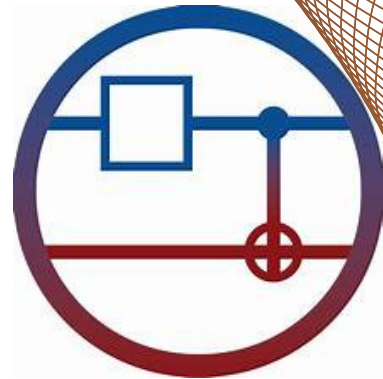
What's Next?

YQuantum

We will attend YQuantum in two weeks to network and expand our presence in the quantum ecosystem.

Quantum Coalition

Joined the UN-recognized coalition with partner schools like (Princeton, Stanford, etc.) to help organize a virtual quantum hackathon.



Research Projects

Working with Cornell Quantum Computing Algorithms Group to develop improved quantum algorithms for the currency arbitrage problem. Future projects include:

- developing improved schemes for quantum circuit compilation
- high-dimensional visualization for improved ansatz construction

Why Sponsor Us?

Events

We aim to organize more higher-quality **events** in the future, such as **guest speakers** and **workshops**. Additionally, we plan to host our own **hackathon**.

Networking

With more support we can attend more high-profile **hackathons** and **conferences** – **IQuHack**, **YQuantum**, **NYUAD** and **IEEE Quantum Week**, **QIP** etc.

Projects

With more support, we can launch **new** quantum computing **projects** and **research** from our club at **CMU**

By supporting **QC@CMU**, sponsors gain **direct access** to top talent at the intersection of Computer Science, Electrical and Computer Engineering, and Physics.

Our initiative fosters cutting-edge **innovation**, **collaboration**, and **hands-on learning**, positioning sponsors at the forefront of quantum computing development. Through this partnership, sponsors can not only tap into a pool of exceptional talent but also propose projects for us to work on, actively shaping the direction of our **research** while contributing to a thriving **quantum ecosystem** at Carnegie Mellon.

We currently have over 100 members on our mailing list, including individuals who have interned at Qbraid, Caltech, etc. and conducted research with leading quantum faculty.



Contact Us

Contact us or check out our social media!



<https://www.linkedin.com/company/carnegie-mellon-quantum-computing/about/>



Email us at arulm@andrew.cmu.edu



<https://www.instagram.com/cmu.qc/>

