

MathQuantum

2024 High School Fellowship

Schedule as of 07/11/24 - All times in Washington, DC time (ET)

All meetings (except QubitxQubit camp) at via Zoom.

 Lecture |  Seminar/Talk |  Workshop |  Discussion |  Hands-on

Day 1 - Thursday July 25th

	Time (duration)	Session	Speaker
	11am (30min)	Intro to program	Daniel Serrano
	11:30am (30min)	Quantum information science overview	Anil Zenginoglu
	Noon (1h)	Break	
	1pm (1h)	Fellow introductions	Daniel Serrano
	2pm (1h)	Intro to quantum mechanics Linear algebra	Rafael Romero Méndez

Day 2 - Friday July 26th

	Time (duration)	Session	Speaker
	11am (1h)	Building the Bloch sphere Complex numbers	Esteban Ayala
	Noon (1h)	Break	
	1pm (1.5h)	Creating webpages on github	Daniel Serrano
	2:30pm (10min)	Break	
	2:40pm (45min)	Quantum coin flipping Cryptography	Carl Miller

Days 3 to 7 - QubitxQubit Summer Camp

Please consult with the QubitxQubit organizers for all logistics related to this part of the fellowship. Reach out to Daniel (dsvolpe@umd.edu) if you're unsure and want help communicating with QubitxQubit.

Day 8 - Monday August 5th

	Time (duration)	Session	Speaker
	10:45am (15min)	QubitxQubit camp reflections	Daniel Serrano
	11am (1.5h)	QLab, IonQ and ion traps overview	Franz Klein
	12:30pm (30min)	Break	
	1pm (1h)	Mini-project working session 1	Daniel Serrano
	2pm (1h)	Bell inequalities Linear algebra	Jonathan Rosenberg
	3pm (10min)	Break	
	3:10pm (1h)	Mini-project working session 2	Daniel Serrano

Day 9 - Tuesday August 6th

	Time (duration)	Session	Speaker
	10:30am (1.5h)	Finding and applying to internships/fellowships	Daniel Serrano
	Noon (2h)	Break	
	2pm (1h)	Ethics and QIS	Daniel Serrano
	3pm	Break	
	3:10pm (1.5h)	Mini-project presentations	High school fellows