Q-SITE TORONTO

2023 SEPTEMBER

PROGRAM

FRIDAY, SEPT 29 — DAY 1

Registration and Snacks	KP Lobby	1:30 PM - 2:30 PM
Opening Ceremony	KP 108	2:30 PM - 2:45 PM
Quantum Computing: A Brief Introduction (Alex Greenwood)	KP 108	2:45 PM - 3:25 PM
Information in Quantum Mechanics (Aephraim Steinberg)	KP 108	3:30 PM - 4:15 PM
The Quantum Threat to Cyber-security and How to Counter it (Hoi-Kwong Lo)	KP 108	4:20 PM - 5:00 PM
Mitacs: Supporting the Canadian Quantum Ecosystem Through Collaborative R&D Partnerships (Hayley McKay)	KP 108	5:05 PM - 5:20 PM
Lab Tours at UofT	BA, SF, MP	5:30 PM - 7:30 PM
Dinner & Networking	Bahen Lobby	7:30 PM - 9:00 PM

SATURDAY, SEPT 30 — DAY 2

Registration and Snacks	Bahen Lobby	9:00 AM - 10:00 PM
Opening Remarks	BA1130	10:00 AM - 10:10 PM
A Brief History of Quantum Cryptography (Reem Mandil)	BA1130	10:10 AM - 10:50 AM
Classical simulation algorithms versus quantum computers (David Gosset)	BA1130	11:00 AM - 11:40 AM
Group Photo	Bahen Waterfall	11:50 AM - 12:00 PM
Lunch (on your own)		12:00 AM - 1:00 PM
Quantum Silicon Photonics (Lukas Chrostowski)	BA1130	1:00 PM - 1:45 PM
Mastering Quantum Computing with Classiq: A Hands-On Workshop (Erik Garcell)	BA1130	1:50 PM - 2:30 PM
Opportunities at the Institute for Quantum Computing (John Donohue)	BA1130	2:35 PM - 2:50 PM
Qiskit workshop (Hemavathi Santhanam)	BA1130	2:55 PM - 3:35 PM
Refreshments & Break		3:35 PM - 3:55 PM
Introduction to Quantum Machine Learning using PennyLane (Alvaro Ballon Bordo)	BA1130	3:55 PM - 4:35 PM
PANEL #1: Upper Years Talk (Moderator: Vivek Dhande; Panelists: Danial Motlagh, Noorain Noorani, Reem Mandil, Viki Prasad)	BA1160	4:45 PM - 5:25 PM
Graduate Fair & Poster Sessions & Networking	Bahen Lobby	5:30 PM - 6:30 PM
Mini-Challenges Coding Time & Pizza	BA2155	6:30 PM - 0:00 AM

An undergrad quantum conference at the University of Toronto (St.George Campus)

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PROGRAM

SUNDAY, OCT 1

DAY 3

Registration and Snacks	Bahen Lobby	9:00 AM - 9:40 AM
IQC: Introducing a hands-on graduate degree in quantum technologies (Michael Grabowecky)	BA1130	9:40 AM - 9:55 AM
Introduction to Magic States: the Source to Achieve Universal Fault Tolerant Quantum Computation (Gaurav Saxena)	BA1130	10:00 AM - 10:40 AM
Quantum Simulation of Many-Body Systems with Superconducting Qubits (Amir Karamlou)	BA1130	10:50 AM - 11:30 AM
Atomistic Simulation of 3nm FinFET properties for use in Spin-Based Quantum Computers (Andrei Olar)	BA024	11:40 AM - 11:55 AM
Controlling Non-Equilibrium Steady States via Environmental Tuning (Nishaant Jacobus)	BA025	
Classification of dynamical Lie algebras for translation-invariant 2-local spin systems in one dimension (Roeland Wiersema)	BA024	11:55 AM - 12:10 PM
Measurement-based quantum machine learning (Luis Mantilla Calderon)	BA025	
Generalized Quantum Signal Processing (Danial Motlagh)	BA025	12:10 PM - 12:25 PM
Lunch (on your own)		12:25 PM - 1:15 PM
Quantum Unclonability and Cryptography (Anne Broadbent)	BA1130	1:15 PM - 2:00 PM
Classiq and the Future of Quantum Computing (Erik Garcell)	BA1130	2:05 PM - 2:20 PM
Quantum Careers (Anna Dyring)	BA1130	2:25 PM - 2:40 PM
Time Series Anomaly Detection with Quantum Variational Rewinding (Ara Ghukasyan)	BA1130	2:45 PM - 3:00 PM
Getting Started with Quantum Computing (Jane Dong)	BA1130	3:05 PM - 3:20 PM
“Quantum Biology”: how nature harnesses quantum processes to function optimally, and how might we control such quantum processes to therapeutic advantage (Clarice Aiello)	BA1130	3:25 PM - 4:05 PM
Creative Destruction Lab - Building Quantum Startups (Brianna Lee)	BA1130	4:10 PM - 4:25 PM
Navigating the jungle of quantum open-source (Michał Stęchły)	BA1130	4:30 PM - 4:45 PM
PANEL #2: Quantum Life (Moderator: Anna Dyring; Panelists: Aharon Brodutch, Brianna Lee, Daniel Flipe Nino, Michael Grabowecky, Michał Stęchły)	BA1160	4:40 PM - 5:30 PM
Awards Ceremony	BA1160	5:30 PM - 6:00 PM
Closing Remarks	BA1160	6:00 PM - 6:10 PM

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