December 3 (Tuesday morning, 8:45am-10:30am) MC 2054 – Note: during lecture time	
8:45-9:10am Stephan Harrigan	Nonlocal games and the "number on foreheads" model
9:15-9:40am Guldam Kwak	Dequantizing quantum machine learning
December 6 (Friday morning, 10:00am-12:15pm) ONC 1201	
10:00-10:25 Alex Kerzner	Universal quantum computation using Clifford circuits and magic states
10:30-10:55 Isaac De Vlugt	Quantum state tomography
11:15-11:40 Sungeun Oh	Quantum information and the issue of information escaping from black holes
11:45-12:10 Thomas Schneider	Proving results about the complexity class PP using quantum computing
<u>December 6 (Friday afternoon, 1:00pm-3:15pm)</u> QNC 0101 – Note: unusual start time & room	
1:00-1:25am Kimia Mohammadi	Quantum information and the issue of information escaping from black holes
1:30-1:55pm Ali Mahnoud	Quantum algorithm for solvable groups
2:15-2:40pm Noah Janzen	Blind quantum computation
2:45-3:10pm Etude O'Neel-Judy	Quantum algorithms for quantum field theories
<u>December 10 (Tuesday morning, 10:00am-12:15pm)</u> QNC 0101 – Note: unusual room	
10:00-10:25 Michael Grabowecky	Manipulations of entanglement via local operations and classical communication
10:30-10:55 Yuming Zhao	NEEXP in MIP*
11:15-11:40 Dominic Fluet	Quantum information and the issue of information escaping from black holes
11:45-12:10 Ming Tong	Discrete-time quantum walk for rare event prediction
December 10 (Tuesday afternoon, 1:30pm-3:30pm) QNC 1201 - Note: unusual start time	
1:30-1:55pm Dmitrii Marin	Quantum speedup of branch-and-bound algorithms
2:00-2:25pm Sandra Cheng	Quantum machine learning — what is it and is it useful?
2:30-2:55pm Kohdai Kuroiwa	Quantum capacity and super activation of quantum channels
3:00-3:25pm Luyao Wang	Application of concatenated coding during operations
December 12 (Thursday morning, 9:30am-11:45am) QNC 1201 – Note: unusual start time	
9:30-9:55am Elijah Durso-Sabina	Efficiently constructing <i>n</i> -qubit gates with limited resources
10:00-10:25 Ejaaz Merali	Introduction to stabilizer codes and the 5-qubit code
10:45-11:10 Noah Greenberg	Fault-tolerant quantum computing
11:15-11:40 Hongyu Li	Quantum algorithms for solvable groups
December 12, (Thursday afternoon 2:00	0pm-3:30pm) QNC 1201
2:00-2:25pm Yi Hong Teoh	Fault tolerant quantum computing with stabilizer codes
2:30-2:55pm Sayan Gangopadhyay	Category theory for quantum mechanics
3:00-3:25pm Lanlan Yu	Quantum algorithm for solving linear systems
December 16 (Monday afternoon, 2:00pm-4:15pm) QNC 1201	
2:00-2:25pm Fangzhou Yin	Introduction to two models of quantum random walk
2:30-2:55pm Yuqing Xie	Quantum-inspired classical algorithm for machine learning: strengths and limits
3:15-3:40pm Zewen Sun	Continuous-time quantum algorithms
3:45-4:10pm Zeou Hu	Using the quantum information framework to prove theorems
December 18 (Wednesday morning, 10:00am-1:15pm) QNC 1201– Note: this session runs longer	
10:00-10:25 Turner Garrow	Quantum walks: introduction and applications
10:30-10:55 Yiju Zhao	Surface code: a stabilizer quantum error-correcting code on a 2-D lattice
11:00-11:25 Joanna Krynski	Realization of quantum computation through measurements on cluster states
December 19 (Thursday afternoon, 2:00pm-4:15pm) QNC 1201	
2:00-2:25pm Alex Currie	Ouantum random walks: introduction and algorithm
2:30-2:55pm Xiuzhe Luo	Quantum compilation: simplifying quantum circuits automatically
3:15-3:40pm Mayar Mohamed	Computation implementation within the Adiabatic model
3:45-4:10pm Yanming Qi	Complexity of finding the minimum eigenvalue of certain Hamiltonians
December 20 (Friday morning, 10:30am-Noon) ONC 1201	
10:30-10:55 Sai Sreesh Venuturumilli	Error-correction using continuous variables
11:00-11:25 Twesh Upadhyaya	QKD security using CSS codes
11:30-11:55 Alexander Roman	Zero capacity quantum channels
December 20 (Friday afternoon, 2:00pm-4:15pm) ONC 1201	
1:30-1:55pm Kosar Shirinzadeh Dastgiri	Topological quantum computation and Error correction
2:00-2:25pm Annie Ray	Quantum computer architecture: approaching fault tolerant quantum computation
2:30-2:55pm Rubaya Absar	Quantum principal component analysis and its application (part 1)
3.15-3.40nm Aref Jafari	Quantum principal component analysis and its application (part 2)

3:45-4:10pm Kosar Shirinzadeh Dastgiri Quantum principal component analysis and its application (part 3)