

# QTML 2020 CALENDAR

	Monday 11/09	Tuesday 11/10	Wednesday 11/11	Thursday 11/12
9:00-9:30 EST	<b>Introduction</b>	5.1 <b>Invited:</b> Nana Liu	<b>Poster Session 1</b>	12.1 <b>Invited:</b> Maria Kieferova
9:30-10:00 EST	1.1 <b>Invited:</b> Lei Wang	5.2 On the Quantum vs Classical Learnability of Discrete Distributions		12.2 Entanglement and Optimization in Hamiltonian Variational Ansatz
10:00-10:30 EST	1.2 Near-Term Quantum-Classical Associative Adversarial Networks	5.3 A Continuous Variable Born Machine		12.3 Quantum enhancements for deep reinforcement learning in large spaces
10:30-11:00 EST	1.3 Quantum versus Classical Generative Modelling in Finance	5.4 Compressed Sensing Tomography for Qudits in Hilbert spaces of non-power-of-two dimensions	<b>Coffee Break</b>	<b>Coffee Break</b>
11:00-11:30 EST	<b>Coffee Break</b>	<b>Coffee Break</b>	9.1 <b>Invited:</b> Maria Schuld	13.1 <b>Invited:</b> Hendrik Poulsen-Nautrup
11:30-12:00 EST	2.1 <b>Invited:</b> Vedran Dunjko	6.1 <b>Invited:</b> Emine Kucukbenli	9.2 Machine-learning tools for rapid control, calibration, and characterization of QPUs and other quantum devices	13.2 Improved direct state-overlap estimation for NISQ devices
12:00-12:30 EST	2.2 Quantum Model Learning Agent	6.2 Classification and reconstruction of optical quantum states using deep neural networks	9.3 Visualizing the loss landscape of quantum circuits	13.3 Fast adiabatic ground state preparation with few measurements
12:30-1:00 EST	2.3 Variational Fast Forwarding for NISQ Simulations	6.3 Quantum Computer-Aided design of Quantum Optics Hardware	<b>Lunch Break</b>	<b>Lunch Break</b>
1:00-1:30 EST	2.4 Quantum Error Mitigation Via Machine Learning	6.4 Conceptual understanding through efficient inverse-design of quantum optical experiments		
1:30-2:00 EST	<b>Lunch Break</b>	<b>Lunch Break</b>	10.1 <b>Invited:</b> Eleanor Rieffel	<b>Industry Session</b>
2:00-2:30 EST			3.1 <b>Invited:</b> Annabelle Bohrdt	
2:30-3:00 EST	3.2 An Interpretable Non-Linear Convolutional Layer for Machine Learning of Multi-Site Correlators	7.2 Quantum exploration algorithms for multi-armed bandits	10.3 Quantum-tailored machine-learning characterization of quantum processors	
3:00-3:30 EST	3.3 Quantum computer-aided design: digital quantum simulation of quantum processors	7.3 Learning Algorithms for Large-Scale Out-of-Equilibrium Quantum Systems	11.1 <b>Invited:</b> Juan Carrasquilla	
3:30-4:00 EST	3.4 Neural Network assisted Superconducting Qubit Readout	7.4 Learning quantum many-body states using generative models over the tensor network architecture	11.2 Error mitigation with Clifford quantum-circuit data	14.1 <b>Invited:</b> Aram Harrow
4:00-4:30 EST			11.3 Attention-based Quantum Tomography	14.2 <b>Invited:</b> Giacomo Torlai
4:30-5:00 EST	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>
5:00-5:30 EST	4.1 <b>Invited:</b> Estelle Inack	8.1 <b>Invited:</b> Patrick Coles	<b>Poster Session 2</b>	15.1 <b>Invited:</b> Dries Sels
5:30-6:00 EST	4.2 Hardware Efficient Ansätze for Quantum Optimization with Hard Constraints	8.2 Quantum embeddings for machine learning		15.2 Data re-uploading for a universal quantum classifier
6:00-6:30 EST	4.3 Operator Sampling for Shot-frugal Optimization in Variational Algorithms	8.3 Trainability of Quantum Neural Networks		15.3 Variational Quantum Linear Solver