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## Gate Model Quantum Computing and Waveguide QED with Superconducting Qubits

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Quantum computers are fundamentally different from conventional computers. They promise to address problems that are practically prohibitive and even impossible to solve using today's supercomputers. The challenge is building one that is large enough to be useful. In this talk, we will study two topics: 1) we will consider gate-model quantum computation and the engineering of high-performance superconducting qubits, and 2) we will consider experimental waveguide QED and its application to extensible systems.

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