Introducing the quantum bit to a diverse audience

The promise of quantum technologies has captured the imagination of scientists and engineers alike. The last few years have borne witness to remarkable experimental breakthroughs in the arena of quantum technologies, with industrial research labs such as those in IBM and Google unveiling quantum devices with hundreds of qubits. This has thrown quantum mechanics into the limelight like never before, and there is now a diverse group of learners who are keen to understand how quantum computers work. In this talk, I will describe my pedagogical approach to teaching quantum computing to a mixed audience, many of whom may not have had formal training in quantum mechanics. Along the way, I will touch upon some key ideas of quantum information and computing, including quantum measurements and quantum parallelism.