



CERTIFICATE
Issued October 24th, 2013

This is to certify that

David Ryan MacDonald

successfully completed

CS191x: Quantum Mechanics and Quantum Computation

a course of study offered by **BerkeleyX**, an online learning
initiative of **The University of California At Berkeley** through **edX**.

A handwritten signature in black ink, appearing to be 'A. Fox'.

Armando Fox
Academic Director for Online Education
Professor In Residence
UC Berkeley

A handwritten signature in black ink, appearing to be 'Diana Wu'.

Diana Wu
Executive Director for Online Education
UC Berkeley

A handwritten signature in black ink, appearing to be 'Umesh Vazirani'.

Umesh Vazirani
Roger A. Strauch Professor of EECS
UC Berkeley

HONOR CODE CERTIFICATE

*Authenticity of this certificate can be verified at <https://verify.edx.org/cert/97259993f2c34321aa3d9815d0777a80>