



Certificate of Achievement

Jamie Somers

has completed the following course:

INTRODUCTION TO QUANTUM COMPUTING
UCL (UNIVERSITY COLLEGE LONDON)

This online course provided an introduction to the conceptual foundations of quantum computing technology.

2 weeks, 5 hours per week



Dan Browne
Professor of Physics
UCL (University College London)



In association with



The person named on this certificate has completed the activities in the attached transcript. For more information about Certificates of Achievement and the effort required to become eligible, visit futurelearn.com/proof-of-learning/certificate-of-achievement.

This certificate represents proof of learning. It is not a formal qualification, degree, or part of a degree.



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INTRODUCTION TO QUANTUM COMPUTING **UCL (UNIVERSITY COLLEGE LONDON)**

This course provided an introduction to the fundamentals of quantum computing technology. It explored the theoretical differences between classical computers and quantum computers and why this is crucial to understanding their potential. It looked at the key properties of qubits (quantum bits) and the platforms currently leading development. It discussed the potential real-world applications of quantum computers and asked learners to reflect on how the technology may impact their sector.

STUDY REQUIREMENT

2 weeks, 5 hours per week

LEARNING OUTCOMES

- Explain the key differences in non-mathematical terms between classical and quantum computers
- Identify quantum computing hardware platforms by the technology they are based on
- Outline the most promising applications of quantum computers and their limitations

SYLLABUS

- Classical vs quantum computers
- Quantum physics
- Qubits, superposition and measurement
- Quantum algorithms and applications
- Platforms
- The future of quantum computing