

# Austen Lamacraft

University of Cambridge

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## Relevant recent experience

Researcher with 20+ years' experience:

Current research focus in Quantum Computing and Machine Learning. Extensive knowledge of Python scientific and machine learning stack (e.g. NumPy, SciPy, Pandas, PyTorch, JAX).

Formulating and executing complex research projects involving multiple team members.

Recruitment and managing research of undergraduates, postgraduates and postdocs.

## Employment

*University of Cambridge*

Lecturer → Reader → Professor of Theoretical Physics 2012-2023

*University of Virginia*

Assistant → Associate Professor 2007-2012

*All Souls College, University of Oxford*

Postdoctoral Fellow 2005-2007

*Princeton University*

Robert H. Dicke Fellow, Department of Physics 2002-2005

*Trinity College, University of Cambridge*

Junior Research Fellow 2001-2007

*Barclays Capital, London*

Interest rate derivatives quant 1998-2000

## Expositions and side projects

Machine Learning and Statistical Mechanics ([Lecture 1](#), [Lecture 2](#))

New Rules: Quantum Circuits, Cellular Automata, Complexity and Chaos ([Aspen colloquium](#) see also [YouTube](#))

Cambridge [Computational Physics course](#) and [Maths question site](#)

## Education

*Trinity College, University of Cambridge*

PhD in Theoretical Physics	2002
Master of Mathematics (Distinction)	1998
MA in Natural Sciences (First class)	1997

## Publications