

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