Stuart Patching

Personal Details

**Date of birth:** 13/06/1993

**Nationality**: British

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Education and Work

**Sept 2017 – Present:** MRes in Mathematics of Planet Earth at Imperial College London.

* MRes project: *Analysis of Stochastic Slow-Fast Systems*. Supervisors: Prof. Xue-Mei Li, Prof. Darryl Holm, Prof. Dan Crisan.
* Courses taken: *Partial Differential Equations, Data and Probability, Numerical Methods, Dynamical Systems, Introduction to Geophysical Fluid Dynamics.*

**Mar – Jun 2017:** Volunteer at Raleigh Nicaragua.

**Feb 2017:** Food and Beverage Team at The Holiday Inn Maidstone-Sevenoaks.

**Sept – Dec 2016:** Intern at Centre for Scientific Computing, University of Cambridge.

* Informal internship during which I attended lectures from the MPhil in Scientific Computing.
* Gained skills in C++ and MATLAB.

**Apr – Jun 2016:** English Language Teaching Assistant at IES Las Veredillas, Madrid.

**Jan – Apr 2016:** English Teacher at TEFL Trainer, Madrid.

**Oct – Dec 2015:** PhD Student at University of Southampton in General Relativity group (did not complete).

**Jul – Aug 2015:** Summer Research Project at Department of Chemistry, University of Cambridge.

* Project on ‘Thermal Equilibrium Quantum Dynamics’.
* Supervisors: Prof Stuart Althorpe, Dr Timothy Hele.

**Jul – Aug 2014:** Summer Research Project at Mathematical Institute, University of Oxford.

* Project on crystalline structure of martensitic materials.
* Supervisors: Dr. Pierluigi Cesana, Dr. Angkana Ruland.
* Supervisors are currently writing a paper based on work carried out during this project.

**Oct 2011 – Jun 2015:** MMath (Part III) at University of Cambridge—Pass with Distinction

* Courses taken: *Quantum Field Theory, Symmetries Fields and Particles, General Relativity, String Theory, Black Holes, Applications of Differential Geometry to Physics*.

MA in Mathematics at University of Cambridge—First Class.

* Third year courses: *Classical Dynamics, Integrable Systems, Principles of Quantum Mechanics, Asymptotic Methods, Electrodynamics, Further Complex Methods, Applications of Quantum Mechanics, General Relativity, Computational Projects.*
* Second year courses: *Quantum Mechanics, Methods, Metric & Topological Spaces, Fluid Dynamics, Complex Methods, Complex Analysis, Analysis II, Electromagnetism, Variational Principles, Computational Projects.*
* First year courses: *Vectors & Matrices, Groups, Differential Equations, Numbers & Sets, Vector Calculus, Analysis I, Dynamics & Relativity, Probability.*