ROBIN CROFT – CURRICULUM VITAE

Personal details

Name	**Robin Croft**

University Education

Oct 2018 - present	*PhD in Applied Mathematics and Theoretical Physics* University of Cambridge, UK
Oct 2017 - Aug 2018	*MSci in Physics, Class I, Grade 77.3%, Rank 22* University of Cambridge, UK
Oct 2014 - Aug 2017	*BA & MA in Natural Sciences - Physics, Class I* University of Cambridge, UK

Conferences and Events

~ 4 per year	*Attended GRChombo Meeting* for Numerical Relativity researchers - especially GRChombo users. Rotates between Cambridge, KCL, Oxford and QMUL, UK.
2-6 Sept 2019	*Attended European Einstein Toolkit Meeting 2019* Kings College London (KCL), UK
7-12 July 2019	*Attended 22nd International Conference on General Relativity and Gravitation* Valencia, Spain
27-31 May 2019	*Attended Higgs Centre School of Theoretical Physics 2019* University of Edinburgh, UK
19-21 Nov 20-18	*Attended STFC Data Intensive Science CDT event* University of Edinburgh, UK

Events Organised

23-27 Sept 2019	*Co-Organised Kavli RISE Summer School on Gravitational Waves* University of Cambridge, UK

Talks Given

25 Mar 2021	*"Angular Momentum in Collisions of Boson Stars and Oscillatons"* Virtual GRCHombo Collaboration meeting Organised by Cambridge, KCL, Oxford & QMUL, UK
7-12 July 2019	*"GRChombo and Adaptive Mesh Refinement"* 22nd International Conference on General Relativity Valencia, Spain

Lecture Series and Seminars

General Relativity	*24 hrs* Lecture series from Part III Maths by *David Tong* DAMTP, Cambridge, UK
Black Holes	*24 hrs* Lecture series from Part III Maths by *Jorge Santos* DAMTP, Cambridge, UK
Introduction to C++	*12 hrs* Lecture series for MPhil students by *Philip Blakey* Department of Physics, Cambridge, UK
Machine Learning	*17 hrs* Lecture series for MPhil in Computer Science Department of Computer Science and Technology, Cambridge, UK
OpenMP and MPI	*~ 10 hrs* Lecture series for MPhil students by *Philip Blakey* Department of Physics, Cambridge, UK

Lent 2020	General Relativity	to *3rd Year students of Mathematics* University of Cambridge, UK
Michaelmas 2019	Classical Dynamics	to *3rd Year students of Mathematics* University of Cambridge, UK
Lent 2019	General Relativity	to *3rd Year students of Mathematics* University of Cambridge, UK
Michaelmas 2018 - Easter 2019	Mathematics	to *1st Year students of Natural Sciences* University of Cambridge, UK
Michaelmas 2018	General Relativity	to *3rd Year students of Natural Sciences* University of Cambridge, UK

GR Seminars	*24 hrs per year* Lecture series of new papers relevant to General Relativity Researchers DAMTP, Cambridge, UK

Supervising Experience
Masters Project

For the research project of my masters projects I was interested in relativistic electromagnetism, supervised by Professor Stephen Gull. The first scenario I studied was a charge, or set of charges spaced equally around a circle, orbiting at relativistic speeds. The second main project was the plotting of electric field-lines about electric charges placed along a line outside Schwarzschild or Reissner-N¨ordstrom black holes. Finally some photon geodesics were plotted about these black hole spacetimes. In all cases a self written c++ code was used to numerically calculate and plot line integrals of the resulting electromagnetic fields or photon geodesics.
