CURRICULUM VITAE

PERSONAL INFORMATION

Name Address

Telephone E-Mail Website

EDUCATION

- ⊳ Date(s)
- Qualification
- Institute
- Research Topic
- Supervisor(s)

⊳ Date(s)

- Qualification
 Institute
 Grade Achieved
 Dissertation Title
 Supervisor(s)
- Award(s)

MEMBERSHIPS

• AMIMA

 \circ FRAS

PUBLICATIONS

o 2018

Robert G. Cooper Office 4.06 (PHD1) School of Mathematics, Statistics and Physics Herschel Building Newcastle University Newcastle upon Tyne NE1 7RU United Kingdom 07749348217 r.cooper4@newcastle.ac.uk https://blogs.ncl.ac.uk/rcooper4

Sep 2017 - present

PhD Mathematics Newcastle University Convection and Dynamos in Planetary Interiors Dr C. Guervilly & Dr P. Bushby

Sep 2013 - Jun 2017

MMath Mathematics Newcastle University 1st Topological Complexity of Superfluid Turbulence Prof C.F. Barenghi Awarded IMA Membership for Outstanding Academic Achievement

Associate Member of the Institute of Mathematics and its Applications Fellow of the Royal Astronomical Society

M. Mesgarnezhad, R.G. Cooper, A.W. Baggaley & C.F. Barenghi (2018): Helicity and Topology of a Small Region of Quantum Vorticity, *Fluid Dyn. Res. (50)*(1)

SKILLS

 MATLAB Fortran Linux Python High Performance Computing (HPC) Message Passing Interface (MPI) 	Proficient in MATLAB with 4 years of experience Basic knowledge from one undergraduate module Intermediate linux user with 1 year of experience Basic knowledge Experience running numerical codes on high performance com- puters such as Newcastle University's Topsy (http://topsy.ncl.ac. uk) and Rocket (http://www.ncl.ac.uk/itservice/research/hpc/) Experience using MPI for parallel codes, took part in MPI training provided online by http://archer.ac.uk
▷ Date(s)○ Activity	26-28th Mar 2018 Attended the Fluid Mechanics of Planets and Stars course at CISM, Udine
▷ Date(s)○ Activity	9-11th Apr 2018 Attended and presented a poster at Chasing Tornadoes , New- castle University
▷ Date(s)○ Activity	26-28th Mar 2018 Attended and presented a poster at UK MHD , University of St Andrews
▷ Date(s)○ Activity	11-15th Dec 2017 Attended Computational MHD Workshop , University of Leeds
▷ Date(s)○ Activity	11-15th Sep 2017 Attended STFC Introductory Solar System Plasma Physics Summer School
▷ Date(s)○ Activity	13-16th Sep 2016 Attended joint MACRO (Multi-component Atomic Conden- sates and Rotational Dynamics) conference and JQC (Joint Quantum Centre) symposium
 Date(s) Activity Research Topic Supervisor(s) 	May 2016 - Sep 2016 Summer Project Computing Topological Properties of Superfluid Vortex Knots Prof C.F. Barenghi