

OLIVER SHORTTLE

Institute of Astronomy & Department of Earth Sciences
University of Cambridge, UK
shorttle@ast.cam.ac.uk | www.shorttle.com

EMPLOYMENT

2018– Fellow of Clare College and Director of Studies in Earth Sciences
2017– University Lecturer, IoA & Department of Earth Sciences, University of Cambridge, UK
2016– Title A Fellow (Junior Research Fellow), Trinity College, University of Cambridge, UK
2015–2016 Geology Option Postdoctoral Fellow, GPS, Caltech, USA
2013–2015 Title A Fellow (Junior Research Fellow), Trinity College, University of Cambridge, UK
2013–2015 Adjunct Associate Researcher, ISEI, University of Okayama, Japan
2013 Japanese Society for the Promotion of Science post-doctoral fellow, Japan

ACADEMIC RECORD

2009–2013 Ph.D. in Earth Sciences, University of Cambridge, awarded without correction
2008–2009 MSci (1st class) Natural Sciences (Geology), University of Cambridge
2005–2008 Ba (Hons, 1st class) Natural Sciences (Geology), University of Cambridge

SELECTED AWARDS AND PRIZES

2015 Senior Pedan Fellow, Rice University
2014 President's Award, The Geological Society.
2013 Furusato Award, Japanese Society for the Promotion of Science

STUDENT SUPERVISION

PhD – 1 completed; 3 in progress.
Masters – 3 completed

ACADEMIC SERVICE

Journal reviewer for: Nature Geosciences; Geology; Earth and Planetary Science Letters; Geochemica et Cosmochimica Acta, Geochemistry Geophysics and Geosystems; Journal of Petrology.
Grant reviewer for: NSF, NERC, STFC, Royal Society.

FUNDING OR FUNDING IN KIND

– As PI

2016 STFC Diamond Light Source facility: £80000 (FEC). Principal Investigator: The redox budget of the Iceland mantle plume: a multi-proxy approach
2015 STFC Diamond Light Source facility: £95940 (FEC). Principal Investigator: Probing the length scales of redox heterogeneity in ancient mantle domains
2015 STFC Diamond Light Source facility: £9594 (FEC). Principal Investigator: The effect of beam damage on ferric iron determinations by XANES
2014–15 NERC ion microprobe facility: £22500 (FEC). Principal Investigator: Resolving the origin of volatiles in the Icelandic mantle using boron isotopes
2013 STFC Diamond Light Source facility: £76752 (FEC). 12 shifts (4 days). Principal Investigator: Are enriched mantle domains more reducing? Testing geochemical-redox relationships in the mantle using Mid-Atlantic Ridge basalts

– As PROJECT PARTNER

2016 'Mantle volatiles: processes, reservoirs and fluxes' [NE/M000427/1]. PI Ballentine, Oxford.
2016 'How did primordial and recycled geochemical signatures come to coexist in the Earth's deep mantle?' [NE/P002331/1]. PI Hartley, Manchester.
2016 'Oxygen fugacity structure of mantle plumes: Reconciling elemental, isotopic and Fe redox proxies' [NE/N009568/1]. PI Maclennan, Cambridge.

FIELDWORK

2008–2016 Over 150 days of field experience in Iceland, collecting material for major element, trace element, isotope and micro-analytical work, and drilling for paleomagnetic samples in the active volcanic zones and Tertiary successions

2010 NERC research cruise JC049, five weeks active seismology, imaging sedimentary thickness across the north Atlantic

2008 15 days sampling Eocene–Oligocene sedimentary successions in Svalbard, Norway