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2008 - Professor of Earth Sciences.

2006-2008: Lecturer in Igneous Processes, Dept of Earth Sciences, Oxford University.

1991-2006: Assistant Lecturer, Lecturer then Senior Lecturer, Cambridge University.

1998: Senior Scientist, Montserrat Volcano Observatory (6 week secondment).

1990-1991: Visiting Associate, California Institute of Technology, Pasadena.

1989-1991: Research Fellow, St. Catharine's College, Cambridge.

Higher Education

1990: PhD, Cambridge University. "Geological and radiochemical studies on young volcanoes".

Advisers: Prof. RSJ Sparks FRS, Dr M Ivanovich.

1986: B.A. (Hons), Geological Sciences, University of Cambridge (First Class).

Awards

2020 **Thermo-Fisher Scientific Award** of the Volcanic and Magmatic Studies Group (VMSG)

2018 **Royal Astronomical Society Group Achievement Award**: (joint) The Centre for Observation and Modelling of Earthquakes, Volcanoes and Tectonics (COMET)

2017 **Athens Academy Prize for Natural Sciences** (joint) for authors of 'Post-eruptive flooding of Santorini caldera and implications for tsunami generation' *Nature Comms* 7:13332, 2016

2016 **Hallimond Lecturer**, Mineralogical Society of Great Britain and Ireland

1994 **President's Award**, Geological Society of London

Recent Funding/Research

2023 – Invited member of shore party for IODP leg 398

2022-3 Newton and GCRF Consolidation Account Impact Award (Oxford), *Explosive Transformations*. Mural painting and experiential videos, Montserrat and St Vincent. (PI). £88k

2022-3 AHRC-NERC, *Hidden Histories call: Curating Crises* (Co-I). £102k

2021 NERC Urgency Grant, *La Soufriere 2021: Recharge, remobilisation or complete renewal of a magmatic system?* (PI). £52k

2014-20 NERC Theme Action Grant, *Mantle volatiles* (Co-I; ca. £3M).

2014-19 NERC Consortium Grant *RiftVolc – Volcanism in the Main Ethiopian Rift* (Co-I; ca. £2M).

2018 Academy of Medical Sciences GCRF Networking Grant, *Workshop: Harnessing Volcanic and Geothermal Resources for Sustainable Development (Kenya)*. £25k

2016-18 AHRC GCRF Grant *Explosive Transformations: Cultural Resilience to Natural Hazard on St Vincent and Montserrat*. (Co-I)

2012-18 NERC/ESRC Directed Grant *Strengthening Resilience in Volcanic Areas* (Co-I; ca. £3M)

Research Summary

208 Peer-reviewed papers, 3 Monographs/Edited books and 2 popular books.

h index – 60; 9800 citations ([Scopus](#)); 72, 14700 citations on [Google Scholar](#)

Selected papers

C Satow et al., 2021, Eruptive activity of the Santorini Volcano controlled by sea-level rise and fall, *Nature Geoscience*, 14, 586–592.

DM Pyle et al., 2018, The 1902-3 eruptions of the Soufriere, St Vincent: impacts, relief and response, *Journal of Volcanology and Geothermal Research* 356, 183-199.

DM Pyle and TA Mather, 2003, The importance of volcanic emissions for the global atmospheric mercury cycle, *Atmospheric Environment* 37, 5115 – 5124

TJ Browning et al., 2015, Volcanic ash supply to the surface ocean – remote sensing of biological responses and their wider biogeochemical significance. *Frontiers in Marine Science* 2, art 14.

DM Pyle, 1989, The thickness, volume and grainsize of tephra fall deposits, *Bulletin of Volcanology*, 51, 1-15. The most cited paper in 'Bulletin of Volcanology'.

Selected professional activities

2021 – Member, External Review Panel, Faculty of Earth Sciences and School of Engineering and Natural Sciences, University of Iceland.

2014-2022 Director, Oxford University NERC Doctoral Training Programme in Environmental Research. *Awarded 120 studentships over 5 years, 2014-2018; renewed in 2018 (additional 90 studentships over 5 years, 2019-2023).*

2018- Peer Review College, UKRI Future Leaders Fellowships (Rounds 1-7)

2018-2021 Panel Member, Royal Society Future Leaders-African Independent Researchers (FLAIR) Fellowships

2016-2019 Diamond Light Source Beam Time Panel

2015 Member, NERC CDT Review Panel (Smart and Autonomous Observing Systems)

2013-17 Panel Member, Leverhulme Trust Royal Society Senior Research Fellowships

2011-14 Member, then Chair, NERC Ion Microprobe Facility Steering Group

Journal editor: *Geol Magazine* (1995-2006; *J Geol Soc London*, 2007-13; *GeoResJ* 2013-16).

Editorial Boards: *J Volc Geotherm Res* (since 2014); *Frontiers in Volcanology* (since 2019).

Reviewer for international funding agencies: Canada, Chile, ERC, France, Germany, Greece, Jordan, Singapore, Switzerland, US.

University Responsibilities (selected)

Academic Lead, [Oxford Sparks](#) since 2011. Portal digital public engagement with research across Oxford's science and medical science divisions, with a website, YouTube and social media presence. We have created animations, videos, teaching resources and podcasts to engage with diverse audiences.

Curator, Bodleian Libraries - member of the Library Board (2016-21) with oversight of the strategic activities of the libraries.

Member, Public Engagement Academic Advisory Network, University of Oxford (2017-22): termly forum for discussion of University strategy and practice in public engagement.

Member, Environmental Humanities Panel, TORCH (2021-). Interdisciplinary strategic forum.

Public Engagement (selected)

Trustee, Oxford Science Festival (since 2018). This charity runs an annual festival of science and ideas in communities across greater Oxford.

Exhibitions (as curator)

2022 - Vesuvius '22. Short-term exhibit at the Bodleian libraries on the October 1822 eruption.

2019 - [The 1883 Eruption of Krakatoa](#). *Google Arts and Culture* exhibition, curated with Amber Madden-Nadeau (PhD student) and The Royal Society.

2018 - Vesuvius Unlocked, Oxford University Museum of Natural History, March – May 2018.

Based on collections research by Master's student, Emma Watts on the 19th eruptions of Vesuvius and the archives of John Phillips and Charles Daubeny.

2017 - Volcanoes. ST Lee Hall, Bodleian Libraries, Oxford. Featured in *The Guardian*, *The Times Literary Supplement*, *Nature*, *New Scientist*, *The Spectator*, *BBC Earth Magazine*, *Minerva Magazine*, *USA Today*. *55,000 people visited the exhibition.*

2014-15 [London Volcano](#) – exhibited at Natural History Museum, London (2014); Green Man Festival (2015), British Geological Survey (2015), Diamond Light Source (2015).

Exhibitor – Royal Society Summer Exhibition

2023 - *Sensing Volcanoes* (forthcoming), AHRC-NERC Curating Crises project.

2010 - '*Fast and Furious*', NERC-funded Afar Consortium.

Film/Media: Contributor to *Volcanoes: Dual Destruction* (Smithsonian Channel, 2019).

Ancient Mysteries ('The ten plagues of Egypt'. Blink TV, broadcast on Channel 5 (UK) and 'Secrets of the Bible' 2018 (on the eruptions of Santorini, and their impacts). Regular commentator on volcanic activity and related stories (Last 5 years including: Newsweek.com, BBC World Service, BBC 5 live, BBC local radio, Al Jazeera News, news.tv, Deutsche Welle, BBC South).

Commercial Game: *Volcanoes Top Trumps* – member of design team for a card game (Dec 2012), and online game (Sept 2014) (volcanoestoptumps.org). Cards are still commercially available, and profits are used to fund community-led activities in volcanically-active areas.