

Professor RICHARD E. A. ROBERTSON
Professor of Geology
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QUALIFICATIONS

PhD. 2003 (UWI, Geology), MPhil, 1992 (Leeds, Volcanology), BSc, 1987 (UWI, Geology) University of the West Indies (Jamaica)

ACADEMIC & PROFESSIONAL POSTS

- 1993 – present: Seismic Research Centre, The University of the West Indies, St. Augustine
Professor of Geology (2017-present); **Senior Research Fellow** (2012-17); **Research Fellow** (1993-2012);
- 1993 –2019: Seismic Research Centre/Unit, The University of the West Indies, St. Augustine
Director (2013-2019); **Geologist** (2011-2013); **Director** (2008 –2011); Head (2004 – 2008)
- 1987 – 1993: Soufriere Monitoring Unit, Ministry of Agriculture, Richmond Hill, St. Vincent
Volcanologist & Head

MAIN RESEARCH INTERESTS

Volcanic Hazards, Risks, & Crisis Communications; Risk Perception of Natural Hazards; Evolution of volcanism on St. Vincent; Multi-parameter monitoring of volcanic hazards; Use of ICT (including GIS) in hazard monitoring, assessment, response and risk analysis; Mass movement – causes & consequences; Community Disaster Risk Reduction.

SELECTED RESEARCH/DEVELOPMENT GRANTS/CONSULTANCY

- 2013 Co-Investigator, *Constraining the spatio-temporal evolution of volcanism on St Vincent, Lesser Antilles*. Funded by NERC done in collaboration with the University of East Anglia
- 2014 Co-Investigator, *Strengthening Resilience in Volcanic Areas (STREVA)*. Funded by NERC and ESRC and led by Dr Jenni Barclay (University of East Anglia).
- 2015 Co-Investigator, *Crossing Borders and Costing Livelihoods: The unbearable Heaviness of Volcanic Ash*. Grant from NERC International Opportunities Fund done in collaboration with the University of East Anglia and the University of Bristol
- 2016 Co-Investigator, *Explosive transformations: cultural resilience to volcanic hazards on St. Vincent and the Grenadines*. A grant from the UK Arts and Humanities Research Council (AHRC) and Global Challenges Research Fund (GCRF) done in collaboration with the University of East Anglia.
- 2017 Co-Principal Investigator, *New generation of volcanic hazard maps for the Lesser Antilles*. Grant from USAID in collaboration with colleagues at the University of Auckland to characterize the volcanic hazard and co-create new hazard maps for the Eastern Caribbean.
- 2017 Project Lead, *Volcano-Ready Communities in St. Vincent and the Grenadines Project*. Grant from the Caribbean Development Bank (CDB) through its Community Disaster Risk Reduction fund to assist with the financing of this project.
- 2018 Co-Investigator, *Strengthening capacities of early warning and response for tsunamis and other coastal hazards in the Caribbean*. A grant from the European Civil Protection and Humanitarian Aid Operations (DIPECHO) to UNESCO that will benefit selected countries in the Caribbean region
- 2019 Co-Investigator, *Disaster Passed: resilient Caribbean futures via shared knowledge of historical disasters*. A grant from the UK Arts & Humanities Research Council to develop exhibits for Montserrat and the UK Parliament.
- 2020 Project Partner, *Risk at the Margins (RAM): a blueprint for defragmenting disaster risk reduction with populations at risk*. Funded by UK Engineering and Physical Sciences Research Council
- 2022 Project Partner, *Curating crises: the past as a key to improving the stewardship of hazard knowledges for the future*. Funded by UK Arts and Humanities Research Council

PUBLICATION SUMMARIES

ORCID: <https://orcid.org/0000-0001-5245-2787>

Web of Science : <https://publons.com/researcher/2166777/richard-e-a-robertson/>

Google Scholar: <https://scholar.google.com/citations?user=Yner99QAAAAJ&hl=en>

ResearchGate: https://www.researchgate.net/profile/Richard_Robertson2

SELECTED PUBLICATIONS

Metcalfe, S. Moune, J-C. Komorowski, **R. Robertson**, T. Christopher, EP. Joseph, R. Moretti (2023): Diverse magma storage and major and volatile magma composition: What are the implications on the eruptive style across a volcanic arc? An example of the Lesser Antilles Arc. *Earth-Science Reviews*, *Earth-Science Reviews*, <https://doi.org/10.1016/j.earscirev.2023.104440>.

Omari Graham, Stacey Edwards and **Richard Robertson** (2022): More than a warning: Expanding the role of communication in Eastern Caribbean volcano science. *Frontiers in Earth Science* 10, <https://doi.org/10.3389/feart.2022.907559>

EP Joseph, M Camejo-Harry, T Christopher, R Contreras-Arratia, S Edwards, O Graham, M Johnson, A Juman, JL Latchman, L Lynch, VL Miller, I Papadopoulos, K Pascal, **R Robertson**, GA Ryan, A Stinton, R Grandin, I Hamling, MJ Jo, J Barclay, P Cole, BV Davies, RSJ Sparks (2022): Responding to eruptive transitions during the 2020–2021 eruption of La Soufrière volcano, St. Vincent. *Nature communications* 13, <https://doi.org/10.1038/s41467-022-31901-4>

J Barclay, **R Robertson**, JP Scarlett, DM Pyle, MT Armijos (2022): Disaster Aid? Mapping historical responses to volcanic eruptions from 1800–2000 in the English-speaking Eastern Caribbean: their role in creating vulnerabilities. *Disasters*. <https://doi.org/10.1111/disa.12537>

Jenni Barclay, Roger Few, M Teresa Armijos, Jeremy C Phillips, David M Pyle, Anna J Hicks, Sarah K Brown, **Richie EA Robertson** (2019): Livelihoods, wellbeing and the risk to life during volcanic eruptions. *Front. Earth Sci.*, 14 August 2019. <https://doi.org/10.3389/feart.2019.00205>

P.D. Cole, **R.E.A. Robertson**, L. Fedele, C. Scarpati (2019): Explosive activity of the last 1000 years at La Soufriere, St. Vincent, Lesser Antilles. *Journal of Volcanology and Geothermal Research*, Vol. 371, pp. 86-1000, <https://doi.org/10.1016/j.jvolgeores.2019.01.002>.

Lindsay J.M and **Robertson R.E.A** (2018): Integrating Volcanic Hazard Data in a Systematic Approach to Develop Volcanic Hazard Maps in the Lesser Antilles. *Front. Earth Sci.* 6:42. doi: 10.3389/feart.2018.00042.

Robertson R. E. A. (2017): St. Kitts and Nevis. In: Casey D. Allen Landscapes and Landforms of the Lesser Antilles (Ed.): *World Geomorphological Landscapes*. Springer International Publishing AG, Cham, ISBN: 978-3-319-55785-4, XVI, 317p.

Anna Hicks, Teresa Armijos, Jenni Barclay, Jonathan Stone, **Richard Robertson**, Gloria Patricia Cortes (2017): Risk communication films: Process, product and potential for improving preparedness and behaviour change. *International Journal of Disaster Risk Reduction*, 23, 138-151, ISSN 2212-4209, <https://doi.org/10.1016/j.ijdrr.2017.04.015>.

Dondin, Frederic Jean-Yves, Heap, Michael J., **Robertson, Richard E.A.**, Dorville, Jean-François M., Carey, Steven (2017): Flank Instability Assessment at Kick'em-Jenny Submarine Volcano (Grenada, Lesser Antilles): A Multidisciplinary Approach Using Experiments and Modeling. *Bulletin of Volcanology*, 79 (1), 5, doi:10.1007/s00445-016-1090-8.

Robert Constantinescu, **Richard Robertson**, Jan M. Lindsay, Roberto Tonini, Laura Sandri, Dmitri Rouwet, Patrick Smith and Roderick Stewart (2016). Application of the probabilistic model BET_UNREST during a volcanic unrest simulation exercise in Dominica, Lesser Antilles. *Geochem. Geophys. Geosyst.*, 17, doi:10.1002/2016GC006485. Impact Factor: 2.923 [2015/2016], 2 Citations

Emily Wilkinson, Emma Lovell, Barbara Carby, Jenni Barclay and **Richard E. A. Robertson** (2016): The Dilemmas of Risk-Sensitive Development on a Small Volcanic Island. *Resources*, 5, (2), 21; doi:10.3390/resources5020021.

Elena Melekhova, Jon Blundy, **Richard Robertson**, Madeleine Humphreys (2015): Experimental Evidence for Polybaric Differentiation of Primitive Arc Basalt beneath St. Vincent, Lesser Antilles. *Journal of Petrology*, 56 (1), 161-192 doi:10.1093/petrology/egu074.