

Jamie I. FARQUHARSON

/ˈdʒeɪmi ˈfɑː(r)kəsən/

Volcanologist



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jifarquharson



JI_Farquharson

Technical Skills

L^AT_EX • LabVIEW • Inkscape

Python • Jupyter Lab • MS Office

MATLAB • R • CSS

Education

PhD., Geophysics
(Experimental Volcanology)

Exceptional

Université de Strasbourg

2013 - 2016 | Strasbourg, France

MSc., Volcanology
and Geological Hazards

Distinction

Lancaster University

2012 - 2013 | Lancaster, UK

BSc., Environmental Geography

First class with honours

University of Stirling

2007 - 2011 | Stirling, UK

Research experience

April 2018 - **Post-doctoral research associate**

University of Miami, USA

Present

- Exploring the influence of external forces on the frequency and magnitude of volcanic eruptions
- Studying the propensity for rainfall-induced volcanic activity
- Applying experimental data to field-scale problems

Nov 2016 -

Post-doctoral research assistant

Université de Strasbourg, France

April 2018

- Experimental stimulation of geothermal reservoir rocks, under the DESTRESS Horizon-2020 framework.
- Investigating the evolution of the strength and fluid-flow properties of reservoir material during acid stimulation

Nov 2011 -

Research assistant

Universidad de Colima, Mexico

Mar 2012

- Volunteer at Centro de Intercambio e Investigación en Vulcanología (Center for Exchange and Research in Volcanology)
- Collection and analysis of volcanic thermal data, digitisation of seismic events, and taking field gas measurements.
- Deployment and field testing of infrasound arrays, field-testing a range of geochemical, geothermal and geodesic equipment.

Reviewing experience

Journal of Volcanology and Geothermal Research; Solid Earth; IEEE Transactions in Geoscience and Remote Sensing; Bulletin of Volcanology; Computers & Geosciences; Volcanica; Journal of Geophysical Research; Processes; Remote Sensing; Energies; Applied Sciences; Geophysical Journal International; G³; Mathematical Geosciences

Open access

I am a keen proponent of the idea that science and data should be openly accessible to everyone. I developed [Volcanica](#), a diamond open-access volcanology journal, with this in mind. I serve as Editor-in-Chief, typesetter, and web developer. I also serve on the advisory council of [EarthArXiv](#): a pre-print archive for Earth Sciences.

Select publications

Farquharson, J. I., & F. Amelung, 2020. Extreme rainfall triggered the 2018 rift eruption at Kīlauea Volcano. *Nature*. doi: 10.1038/s41586-020-2172-5

Farquharson, J. I., B. Wild, A. R. L. Kushnir, M. J. Heap, P. Baud, & B. Kennedy, 2019. Acid-induced dissolution of andesite: evolution of permeability and strength. *JGR: Solid Earth*. doi: 10.1029/2018JB016130.

Farquharson, J. I., & F.B. Wadsworth, 2018. Introducing Volcanica: The first diamond open-access journal for volcanology. *Volcanica*. doi: 10.30909/vol.01.01.i-ix.

Farquharson, J. I., M. J. Heap, & P. Baud, 2016. Strain-induced permeability increase in volcanic rock. *Geophys. Res. Lett.* doi: 10.1002/2016GL071540.

Farquharson, J. I., M. J. Heap, P. Baud, T. Reuschlé, & N. R. Varley, 2016. Pore pressure embrittlement in a volcanic edifice. *Bull. Volcanol.* doi: 10.1007/s00445-015-0997-9.

Farquharson, J. I., M. J. Heap, N. Varley, P. Baud, & T. Reuschlé, 2015. Permeability and porosity relationships of edifice-forming andesites: A combined field and laboratory study. *J. Volcanol. Geoth. Res.* doi: 10.1016/j.jvolgeores.2015.03.016.

Full list of publications available at [jifarquharson.github.io/](#).