Jamie I. FARQUHARSON

/ˈdʒeɪmi ˈfɑː(r)kəsən/

Volcanologist

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🐦 JI_Farquharson

Technical Skills

LaTeX • 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 honour*s
University of Stirling
2007 - 2011 | Stirling, UK

🔍 Research experience

April 2018 - Present — **Post-doctoral research associate** — University of Miami, USA
- 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 - April 2018 — **Post-doctoral research assistant** — Université de Strasbourg, France
- 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 - Mar 2012 — **Research assistant** — Universidad de Colima, Mexico
- 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*; G^3; *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/.