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## Summary

## Biography

I'm a teaching-focused Lecturer in the School of Earth Sciences and a member of the Volcanology and Petrology research groups. I studied for my B.S. (2003) and M.S. (2005) in Geology at the University of Oregon, then moved to the U.K. in 2008, where I discovered cream tea and have stayed ever since. In 2009, I came to Bristol to do my PhD in volcanology, finishing in 2013. I also spent two years as a postdoctoral researcher at Durham University before starting my current post. I currently serve on the Board of Directors of the American Geophysical Union (AGU) and the advisory board of AGU's community-based science initiative, the Thriving Earth Exchange.

## Teaching

I teach and co-teach a number of courses in the School of Earth Sciences, with emphasis on our School's field curriculum. I'm the unit coordinator for our 3rd year Independent Fieldwork programme for geologists and previously coordinated Introduction to Mapping, a field-based course in geologic mapping for all 1st year students. I run modules on field methods and map interpretation for 1st year (as part of Geology 1) and 2nd year students (as part of Mapping, Tectonics and Remote Sensing). I am also the unit coordinator for Independent Development of Geological Skills, an independent, synoptic, practical-based course for 3rd year geologists. I currently serve as our School's First Year Coordinator and sit on the Teaching, Learning, and Assessment Committee (TLAC).

## Keywords

- Volcanology

## Memberships

## Organisations

[School of Earth Sciences](#)

## Earth Sciences staff

- [Earth Sciences academic staff including research fellows](#)

## Research groups

- [Petrology](#)
- [Volcanology](#)

## Research themes

- [Crustal Magmatism, Volcanism and Geological Risk](#)

## Recent publications

- Hughes, EC, Buse, B, Kearns, SL, Blundy, JD, Kilgour, G, Mader, HM, Brooker, RA, Balzer, R, Botcharnikov, RE, Di Genova, D, Almeev, RR & Riker, JM, 2018, '[High spatial resolution analysis of the iron oxidation state in silicate glasses using the electron probe](#)'. *American Mineralogist*, vol 103., pp. 1473-1486
- Riker, JM, Humphreys, M, Brooker, R, Hoog, C-J & , 2018, '[First measurements of OH-C exchange and temperature-dependent partitioning of OH and halogens in the system apatite-silicate melt](#)'. *American Mineralogist*, vol 103., pp. 260-270
- Riker, JM, Blundy, JD, Rust, AC, Botcharnikov, RE & Humphreys, MCS, 2015, '[Experimental phase equilibria of a Mount St. Helens rhyodacite: A framework for interpreting crystallization paths in degassing silicic magmas](#)'. *Contributions to Mineralogy and Petrology*, vol 170.
- Riker, JM, Cashman, KV, Rust, AC & Blundy, JD, 2015, '[Experimental constraints on plagioclase crystallization during H<sub>2</sub>O- and H<sub>2</sub>O-CO<sub>2</sub>-saturated magma decompression](#)'. *Journal of Petrology*, vol 56., pp. 1967-1998
- Riker, JM, Cashman, K, Kauahikaua, J & Montierth, CM, 2009, '[The length of channelized lava flows: Insight from the 1859 eruption of Mauna Loa volcano, Hawaii](#)'. *Journal of Volcanology and Geothermal Research*, vol 183., pp. 139 - 156

[View complete publications list](#) in the University of Bristol publications system

## Courses

Dr Riker currently teaches 5 courses: