

# Louisa Brotherson



Louisa Brotherson is a PhD researcher at the University of Liverpool. Her PhD project is called: “Journey to the Centre of the Earthquake: how does damage affect earthquake source properties and radiated wavefields?”.

In her research, Louisa uses computer coding and modelling to understand how earthquakes work. She even makes tiny earthquakes in a laboratory and then measures the seismic waves radiating from them!

Louisa holds a degree in Geophysics and during her study year abroad in Canada, she developed an interest in seismic hazard research, leading her to apply for a PhD. She also completed a three-month research project on seismic hazard during underground tunnelling at Ruhr University Bochum in Germany.

Beyond her research, Louisa has completed a three-month UKRI Science Policy placement at the Royal Society, London. Contributing to the Data and Research and Innovation teams, she used her research experience to support projects related to COVID-19 response, misinformation and upskilling. She is also a passionate science communicator and has been consulted as an expert in **Nature Magazine**, the **National Geographic** and even on **Britain’s Novel Landscapes** on TV!

Outside of the office, Louisa also enjoys netball, music and being outdoors.

Louisa is a proud member of the **African Caribbean Research Collective** (ACRC), the next generation of Black British academics of Caribbean descent. Only 30 students from her background received academic funding out of a possible 20,000 studentships (over a 3-year period) from the UKRI. She is an advocate for structural change to ensure that Geosciences are accessible for all.

