

# Meet the scientist



**Name:** Alecia Nickless

**Place of Birth:** Somerset West, South Africa

**Place of Work:** Atmospheric Chemistry Research Group (ACRG), School of Chemistry, University of Bristol, UK

**Job Title:** Postdoctoral Research Associate

**Who do you work for?** Dr. Matt Rigby at the School of Chemistry, University of Bristol, UK

**What do you do?** I model emissions of CO<sub>2</sub> from human (anthropogenic) and natural (biogenic) sources using a computer. I use mathematics to work out how greenhouse gases are changing the climate.

**What skills do you have to use in your job?** I completed a university degree in Statistics and Ecology, followed by a masters' degree (MSc) in Statistics and then a doctorate degree (PhD) in Statistics, studying emissions of carbon dioxide (CO<sub>2</sub>) from the City of Cape Town, South Africa. Foremost, I consider myself a type of mathematician called a statistician. Before I started my PhD, I used my mathematics skills at the Council for Scientific and Industrial Research, South Africa. I then spent a few years working at the University of Oxford as a statistician analysing clinical data. I started my research at the University of Bristol to continue my work on CO<sub>2</sub> emissions

**Why do you like your job?** Understanding where carbon dioxide emissions are coming from and how they are changing over time is important if we are going sort out climate change. I enjoy problem-solving and analytical challenges, particularly getting computer programming code to do what I want! I enjoy collaborating with other researchers in this field from all around the world.

**What inspired you to choose a career in science?** I love the natural world and I love analysing data. I decided to pursue a career in science because I wanted to use my maths skills for data analysis, and it gave me the opportunity to work with people on interesting research questions and learn new things all the time.