

About Professor Danielle George



Professor Danielle George is Associate Dean for Teaching and Learning in the Faculty of Engineering and Physical Sciences, and a Professor in the Microwave and Communications Systems research group at the University of Manchester. She completed her BSc in Astrophysics, MSc in Radio Astronomy at The Victoria University of Manchester based at Jodrell Bank Observatory, and her PhD in Electrical and Electronic Engineering with UMIST. She worked at Jodrell Bank Observatory as a senior Radio Frequency Engineer until 2006 when she took up a lectureship post in the School of Electrical and Electronic Engineering. She was awarded a Professorship earlier this year at the age of 38.

Danielle's expertise in radio frequency and microwave communications has a wide range of applications across a number of industries. To date most of her research and development work has been carried out on a variety of aspects relating to ultra-low noise receivers for Space and Aerospace applications. She is involved in the \$1B astronomical instrument, the Square Kilometer Array (SKA), is the UK lead for amplifiers for the \$1B Atacama Large Millimeter Array (ALMA) telescope and has worked with NASA and ESA on the development of instrumentation for researchers exploring the Big Bang. She has worked with agriculturists on the development of instrumentation to measure water usage and with a number of multi-national companies such as Rolls Royce where she worked on industrial gas turbine engines.

Some recent media engagements that Danielle has been privileged to present have been **The Royal Institution 2014 Christmas Lectures**, which she also took to Singapore and Japan later in 2015. Danielle was a speaker at the acclaimed **TEDGlobal** Conference 2015, she was a guest on the BBC Radio 4 programme **The Life Scientific** and **The Infinite Monkey Cage**, and was keynote speaker at the **Contemporary Great Conference**, as part of the Great North Greats celebratory events in her hometown of Newcastle-upon-Tyne. Danielle has been asked to give the prestigious Rutherford Cockcroft Lecture for 2016.

She thoroughly enjoys the teaching aspects of her career and lectures to both undergraduates and postgraduate students. She is passionate about raising public awareness of the positive impact engineering has on all aspects of our everyday lives and highlighting to young people the immense depth and breadth of opportunities a career in engineering can offer.

The middle one of three sisters, Danielle grew up in Newcastle where her parents still live. Fascinated by science from an early age, she was given a telescope by her parents when she was eight years old and would regularly get up in the middle of the night to watch lunar eclipse. She credits this experience as the moment she first realized how physics and mathematics could be applied in a practical sense outside the classroom and as the first step on her path to her current career.

She now lives in Manchester with her husband, Richard, and daughter, Elizabeth.

You can follow Danielle on Twitter at: @EngineerDG