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## TV crew explore Northumbria's state-of-the-art facilities

Scientists at Northumbria University, Newcastle, are working with Channel 4 on a documentary examining the latest in fitness trends.

[Karen Keane](#), who is a Lecturer in Sport and Exercise Nutrition within the [Sport, Exercise & Rehabilitation](#) department at Northumbria, will appear alongside presenter Anna Richardson on What's the Right Exercise for You? The programme will feature real people who have used exercise to transform their bodies and lives, and the ups and downs they have faced in the process, as well as sports scientists and experts who will explain the latest scientific

findings behind the various exercises featured.

The Channel 4 team made the most of Northumbria University's [state-of-the-art facilities](#) where filming included Anna Richardson having a Resting Metabolic Rate (RMR) test to determine the amount of energy (calories) her body is using at rest.

The well-known presenter – famous for hosting Channel 4's Secret Eaters and producing You Are What You Eat with Dr Gillian McKeith – had to lie down for up to half an hour and breathe into a mask, called an Oxycon, where gases are collected and measured. This measurement is called indirect calorimetry, which is made by analysing the amount of oxygen Anna's body uses and the amount of carbon dioxide her body produces.



Karen, pictured on the right, is nearing completion of her PhD investigating the bioavailability of Tart Montmorency Cherry Juice and the impact on vascular function and exercise performance, said: “Normally we test the RMR of students and athletes, so testing a TV presenter was a very different scenario. It was a fantastic opportunity to showcase the state-of-the art facilities we have here at Northumbria University on a national stage and I’m very much looking forward to seeing the programme on Channel 4 when it is

aired in January.”

The programme specifically explores High-intensity interval training (HIIT) - an exercise strategy alternating short periods of intense anaerobic exercise with less-intense recovery periods - and a study that was carried out among over 50s and the success they had with this particular method of training.

Northumbria is ranked in the top 30 for excellence in sport and exercise science research power, making it the best rated university in the North East in this discipline. Graduates from the University’s sports programmes have included successful medal winning athletes such as Victoria Pendleton (Olympic cyclist), Steve Cram (track and field athlete), Jamie Noon (Rugby Union), Martin Corry (Rugby International), and Chris Cook (Olympic Swimmer).

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## Contacts



**Rik Kendall**

Press Contact

PR and Media Manager

Business and Law

[rik.kendall@northumbria.ac.uk](mailto:rik.kendall@northumbria.ac.uk)

07923 382339



**Andrea Slowey**

Press Contact  
PR and Media Manager  
Engineering and Environment / Health and Life Sciences  
andrea.slowey@northumbria.ac.uk  
07708 509436



**James Fox**

Press Contact  
Student Communications Manager  
james2.fox@northumbria.ac.uk



**Rachael Barwick**

Press Contact  
PR and Media Coordinator  
Health and Life Sciences / Sport  
rachael.barwick@northumbria.ac.uk  
07377422415



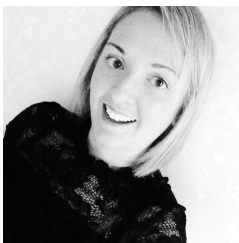
**Ruth Lognonne**

Press Contact  
PR and Media Coordinator  
Health and Life Sciences / Sport  
ruth.lognonne@northumbria.ac.uk  
07971274253



**Emily Morris**

Press Contact  
Corporate Communications Coordinator  
emily.l.morris@northumbria.ac.uk



**Gemma Brown**

Press Contact  
PR and Media Coordinator  
Arts Design and Social Sciences / Engineering and Environment  
gemma6.brown@northumbria.ac.uk