

Kathryn Fowler | Curriculum Vitae

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I have performed at the highest level, both academically achieving a first class honours in Mathematics and Physics at The University of Manchester and as an athlete, becoming a Commonwealth champion in 2014. Being organised, methodical, adaptable and resilient are qualities that I bring to all tasks that I am faced with. I relish opportunities that challenge me to think outside of my comfort zone and require me to apply my knowledge to different situations. I am currently studying towards a PhD in Atmospheric Science at The University of Manchester.

Education

The University of Manchester

PhD Atmospheric Science

Using computer models, I study aerosol cloud interactions. Specifically focussing on the effect condensed phase diffusion through aerosol particles has on water droplet and ice crystal number. Being part of the Earth, Atmosphere and Oceans Doctoral Training Programme has brought me many opportunities to develop skills related to my field of research and also skills such as communication, presentation and coding.

Manchester

2015–2018

The University of Manchester

MMath and MPhys (Hons) in Mathematics and Physics, First Class degree

Final year projects on ice crystal habit classification and geophysical flows sparked my interest in atmospheric sciences, these were supported by modules covering the topics of Atmospheric Physics, Meteorology and Climate. Using skills of organisation and planning I ensured that all work was completed on time and to the high standard that I expect from myself, while balancing a career as an athlete.

Manchester

2010–2015

Sutton Coldfield Grammar School for Girls

A levels

Maths, Further Maths, Physics, Geography, Chemistry, General Studies, Critical Thinking

Sutton Coldfield, Birmingham

2008–2010

Sutton Coldfield Grammar School for Girls

14 GCSEs

Sutton Coldfield, Birmingham

2002–2009

Employment

The University of Manchester

Teaching assistant

Working with undergraduate students to help and guide them through practical sessions with the aim to ensure that they develop an understanding of the underlying principles behind the results they derive. I have demonstrated on the second year courses of data analysis and geophysical techniques and the first year course of scientific problem solving.

Manchester

September 2015–Present

The University of Manchester

Women's Water Polo Coach

I have really enjoyed being able to give back to the University Team, which was such an important part of my undergraduate degree. An important part of my role is to plan and deliver a training programme for six hours a week. Coaching is particularly rewarding as you see players grow in confidence in both their abilities as athletes, leaders and team members.

Manchester

September 2015–Present

British Water Polo

Athlete

I represented Great Britain at junior and senior international level. My first senior competition was the 2013 World Championships in Barcelona, placing 13th. In the 2013-14 season, I competed in the FINA World League and was also a member of team England, winning the Commonwealth Water Polo Tournament, in Aberdeen, Scotland. I am very proud to have represented my country and it has given me amazing opportunities to meet and communicate with many different people, learning how to set myself goals and develop strategies to reach these targets. I developed skills of organisation and time management, which I am able to apply to all aspects of my life.

Manchester

December 2012–December 2014

Positions of Responsibility

SPORT Manchester Scholarship Panel

Athlete Representative

As a retired athlete, who has experienced many different funding and support schemes, and a student at the University of Manchester I sit on the panel who discuss the merits of those applying for the Sport Scholarship Scheme.

The University of Manchester

June 2015–Present

Advanced Apprenticeship in Sporting Excellence (AASE)

Athlete Mentor, St. George's Park, Burton

As an Athlete mentor I worked with 15 to 17 year olds in workshops helping them to understand important factors for performance as athletes. This ranged from mental skills to nutritional and tactical to technical skills of their sport. I gave a presentation to the 150 athletes to wrap up the weekend, I spoke about my journey as an athlete and aimed to inspire them to reach their full potential.

Institute of Swimming

October 2015–Present

The National Water Polo Academy

Team Manager and Coach, Millfield

Every summer I volunteer as a team manager and coach at the national water polo academy for athletes aged 12 to 15 years old. I enjoy working with the future stars of British Water Polo and giving back to the Water Polo community. I have organised the final day tournament, ensuring that all 200+ athletes, their parents, coaches, officials and volunteers enjoy the day of nearly 40 water polo matches, across three pools.

Amateur Swimming Association

August 2012–Present

Additional skills

- **IT Skills:** Proficient using MS Office software and the programming languages of Matlab, Python, C++, HTML, CSS and TeX, and I am always looking to develop these skills further.
- **UK Drivers Licence:** Full UK Drivers Licence, valid from 12/08/2014
- **Referee:** Qualified Grade D Water Polo Referee as of 11/2015

Interests and extra-curricular activity

- I attend monthly North West Royal Meteorological Society meetings.
- Water Polo has been and will always be a huge part of my life. I play for the Liverpool Lizards and we are current British and National League champions.
- I am an active member of the University Water Polo Team, playing and coaching.

References

Dr. Paul Connolly

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Dr. Peter Mitchell

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