

# Steve Bullock

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## Education

- 2017 **PhD Dynamics and Control**, *University of Bristol*, UK.  
Thesis: *Multi-Body Control for Automated Aerial Refuelling*
- 2006 **MEng (Hons) Aeronautical Engineering**, *University of Bristol*, UK, 2:1.  
Dissertation: *Development of a Micro-Unmanned Aerial Vehicle*

## Work

- 2015-date **Widening Participation Lead, Faculty of Engineering**, *University of Bristol*, UK.  
Responsible for recruitment, admission, and progression of diverse range of students across the Faculty; wider outreach and aspiration-raising activities.
- Strategy setting, impact measurement, allocation of £20k+ budget – prioritised year-on-year capacity-building and sustainability.
  - Introduced and led *Transition Maths* programme, including pre-sessional and in-year interventions, to support students from diverse entry routes;
  - Developed *Pathways to Engineering* college partnership programme;
  - Led and supported wide range of targeted outreach initiatives;
- 2010-date **Teaching Fellow, Aerospace Engineering**, *University of Bristol*, UK.  
Teaching-focused academic pathway, alongside PhD research. Various responsibilities focused on improving teaching & learning across Faculty of Engineering and wider University.
- Teaching across range of units, trialled flipped-classroom and other innovative approaches;
  - Improved student-facing resources through direct development, training and supporting colleagues, and sharing best practice;
  - Introduced digital *Dynamic Lab Manual* alongside physical and logistical restructuring of Engineering lab teaching (£400k+ multi-year project);
  - Increased support for school-to-university transition, including Study Skills programme covering wide range of hard and soft skills.
- 2009-2010 **Head of Science**, *King Solomon Academy*, London, UK.  
Founded a new school with engaging and inspirational colleagues in challenging area.
- Set up and led Science department curriculum, resources and programme;
  - Graded outstanding by Ofsted before end of first term.
  - Left to take up fully-funded PhD position.
- 2007-2009 **Head of Physics**, *Wembley High Technology College*, London, UK.  
Trained and placed through intensive Teach First programme.
- Tripled KS5 Physics applications;
  - Implemented whole-school e-learning system;
  - Transformed rigour and ambition of KS4 BTEC Science programme.
- 2006-2007 **Science Teacher**, *Wembley High Technology College*, London, UK.  
Trained through intensive Teach First programme, #3 *Times* top graduate employer.

2006-date **Educational Consultant.**

Wide range of Science- and Engineering-focused freelance projects, including:

- Print, web and film-based resource development and consultation for clients including Google, BP, EDF, RNLi, Land Rover Ben Ainslie Racing;
- Work with Land Rover BAR *STEM Crew* awarded 2018 *EdTech Top 50*;
- Preliminary and semi-final judge for Google Global Science Fair 2011-2016;

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## Additional roles

Ongoing **STEM Communication and Outreach**, UK and international.

Wide range of projects with various organisations and general public, including:

- *The Cosmic Shed* podcast: science fact, science fiction and everything in-between;
- Airbus *Drone Dash*; Aardman/Bristol Children's Hospital *Gromit Unleashed 2*; school & festival high-altitude balloon and rocket launches; SS Great Britain *Future Brunels*.

2015-date **Senate Representative**, *University of Bristol*, UK.

100-member governing body of the University, responsible for teaching and learning, examinations and research and enterprise.

- Approval of new programmes, major changes, budgets;
- Consulted and approved £330m expansion strategy.

2015-2018 **Hall Warden**, *University of Bristol*, UK.

Semi-collegiate Halls structure, part of team of 11 Wardens.

- Established and led 24-person pastoral support team across two brand-new private-partnership halls for 760 undergraduate and postgraduate residents;
- Led on community-building programmes, supervised wide range of student-led activities, managed £62k budget;

2010-date **Committees and Advisory Groups**, *University of Bristol*, UK.

- International Foundation Year working group;
- Faculty of Engineering Equality and Diversity committee;
- Faculty of Engineering New Laboratory working group;
- University Digital Workspace advisory group;
- Best of Bristol Lectures academic lead.

2013-2014 **Campaign Manager**, *Pacific Solo Row*.

Fund raising, logistics and charitable impact for 3-month, £100k solo ocean row.

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## Teaching

University Dynamics and Control; Structures and Materials; Aerospace Vehicle Design and Systems Integration; student-led projects and events.

Secondary A-level Physics, Mathematics; GCSE Science (single/double/triple); BTEC Science (level 2); KS3 Science; KS1 & KS2 experiential and transition activities.

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## Interests

Sustainability Social impact and responsibility; influence of technology.

Innovation Entrepreneurship; startups; positive impact.

Creativity Music, singing, performing; digital/analog arts.

Adventure Mountaineering; cycle touring; ocean rowing; expeditions and exploration.