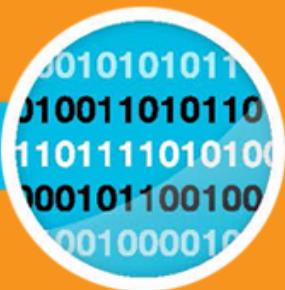




## School of Computer Science Family

Part of  
**THE EPS COMMUNITY**



### Welcome to your 2019 Computer Science Alumni Newsletter



#### Greetings,

It is an exciting time for Computer Science! Breakthroughs in Computer Science continue to impact on every aspect of our daily lives from how business works to cutting edge applications in healthcare, science and engineering. Our Cyber Security group's work on analysing the cyber security dangers involved in attacks against cars and our rail network have been covered in the national press.

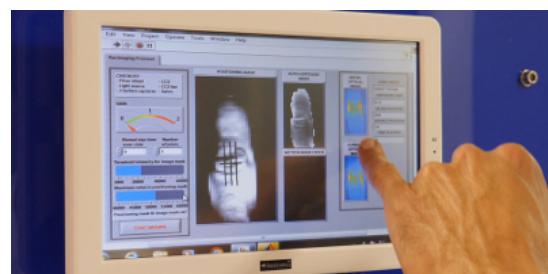
[Read more from Mark Lee](#)



#### 'Hack-ademics' prepare us for new cyber dangers

Prof Flavio Garcia, Prof Mark Ryan and Dr Tom Chothia have recently been featured in The Chronicle, in an article detailing the work that they have been undertaking into stress-testing smart technologies that are used in every day life.

[Find out more](#)



#### Light touch to improve rheumatoid arthritis diagnosis

Infrared light could offer an objective way of diagnosing and monitoring treatment effectiveness. The rapid, non-invasive technique could help clinicians assess how effectively the selected treatment is controlling the progression of the disease.

[Find out more](#)



## Novel software offers possible reduction in arrhythmic heart disease

Potentially lethal heart conditions may become easier to spot and may lead to improvements in prevention and treatment thanks to innovative new software that measures electrical activity in the organ.

[Find out more](#)



## Interoperability is the solution to the Huawei dilemma

5G is the upcoming fifth-generation mobile internet connectivity, designed to support a hyper-connected world of fast-speed and low-latency communications, in which our houses, vehicles, and everything else is capable of being remotely controlled.

[Find out more](#)



## From the wider College: The problem with the plastics problem

Solving the plastics problem will not be easy. It does not have one single and simple solution. The problem is complex and often underestimated. Single use plastics, exemplified by plastic packaging will, and should, never be eliminated completely - to do so would risk other undesirable environmental consequences.

[Find out more](#)



## Launch of a brand new website

We're excited to launch to you, our alumni, the brand new EPS Community website; you're the first people to see this! Computer Science and the College of Engineering and Physical Sciences, in which we are part, has a community of over 85,000 graduates, students, staff and friends. This new site celebrates everything that brings our unique community together and explores opportunities for you to join in. Come along to one of our events, see what our 38 student groups are up to, learn about your fellow alumni, and discover how you could get involved. Let us know your feedback by emailing [eps-community@contacts.bham.ac.uk](mailto:eps-community@contacts.bham.ac.uk), we'd love to hear from you.

[Take a look](#)

# WE ARE BIRMINGHAM ALUMNI

## Help inspire our students

From recent graduates to industry leaders, you are making important things happen. You can inspire students and offer an insight into the opportunities awaiting them. Whatever you're doing, they want to hear from you. Plus, anyone who submits a profile before 1 November will receive an Old Joe magnet.

[Share your Birmingham story](#)



## EPS Societies' Awards

986 nominations were received to this year's student society awards. We're proud to announce that our own Tom Goodman won the *EPS Community Award* for his outstanding contributions to Computer Science and wider the College, and numerous voluntary positions in the Tech Community. Congratulations Tom!

[Discover our Award winners](#)

# MENTORING

## Could you mentor a student?

We're looking for enthusiastic alumni and professionals to provide expertise, advice and inspiration to help our students start their careers. Mentoring makes a real difference; we all know the benefits of having someone to bounce ideas off. If you'd like to be that person, please get in touch.

[Email Grace to become a mentor](#)

---

## News roundup

[Global success continues for University of Birmingham](#) in World University Rankings, climbing four places in the 2020 THE Rankings to 112th globally.

The University and Trilogy Education [launch the first UK university coding boot camp](#).

With the rise of smartphones and the adoption of always-connected 'smart' speakers and devices, the line between being online and offline is becoming increasingly blurred. At the same time, the threats we face online continue to grow and evolve, as criminals respond to the new opportunities. Fortunately cyber security expert Dr Ian Batten shares some [simple tips for staying safe online](#).

Researchers develop software to [automate the process of making legacy enterprise applications ready for cloud](#).

'[Upgrade' elections with online voting](#)', says cryptography expert behind Switzerland's e-voting system, Dr David Galindo.

The web at 30: Computer Science staff and students [reflect on the web's past and its future](#).

Understanding kinematic structures to [make robots more human-like](#).

Computer scientist maps [new connections between graph theory and programming](#).

---

## Events

### [Sustainable civil nuclear power workshop](#)

17 September 2019, 9:30am-5pm  
Old Gym, University of Birmingham

### [Join In Hong Kong](#)

24 October 2019, 6:30-8:30pm  
Asia Society Hong Kong Center, Admiralty, Hong Kong

### [My Life in Maths and Shaping the Brain - London Mathematical Society Popular Lectures](#)

19 September 2019, 6:30-8pm  
Bramall Music Building, University of Birmingham

### [Careers and Coffee](#)

29 October, 6-8pm  
Cherry Reds, Birmingham City Centre

### [Wetting of hydrophobic and superhydrophobic surfaces workshop](#)

20 September 2019, 10:30-11:30am  
G34 Engineering Building, University of Birmingham

### [Join In New York](#)

13 November 2019, 6:30-8:30pm  
Four Seasons Hotel, Barclay Street, New York

### [Book to the Future](#)

18-19 October 2019 The University's annual festival of the written and spoken word, featuring free workshops, panel discussions, performances and author talks, including:

- [The return of race science, Angela Saini](#)

18 October, 5:30-7pm

- [From Brum to bakes, Candice Brown](#)

19 October, 6-7pm

### [Join In San Francisco](#)

14 November, 6:30-8:30pm  
Waterbar, 399 The Embarcadero, San Francisco

### [LGBTSTEMinar](#)

10 January 2020  
University of Birmingham

### [House of Lords Reception](#)

24 April 2020, 6:30-8:30pm  
House of Lords, London

### [EPS Societies' Awards](#)

10 June 2020, 7:30-11:30pm  
Great Hall, University of Birmingham

You are in control of your data. We want to stay in touch with you and will keep your personal data in accordance with your wishes. A detailed statement on how your data is held and used is set out in the Alumni and Supporters Data Privacy Notice at [www.birmingham.ac.uk/privacy/alumni.aspx](http://www.birmingham.ac.uk/privacy/alumni.aspx). If you no longer wish to receive this type of information from us or would like to change your preferences about the information we send you, have any questions about your personal data, or would like a paper copy of our Privacy Notice, please contact [alumnioffice@contacts.bham.ac.uk](mailto:alumnioffice@contacts.bham.ac.uk) or telephone +44 (0)121 414 4724. Our Inland Revenue charities reference number is X7237.