



**Mr Paul Shabajee**  
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## Summary

Paul is an interdisciplinary Research Fellow based in the [Department of Computer Science](#) at the University of Bristol. He has wide-ranging research interests which span three main areas: sustainability/sustainable development, applications of Information & Communications Technologies (ICT) and education.

Paul's current project is TEAPOT (Tools for Environmental Planning of Television) working in partnership with BBC Research and Development to model and understand the energy and carbon footprint of TV viewing across media platforms. Other recent projects include:

- [IODiCUS](#) (Interoperable Open Digital Control Unit System) - Innovate UK project taking a user focused approach to the development of data visualisation and smart energy management in an urban Localised Energy System (the University of Bristol estate) (Oct 15 – Oct 16)
- [STEEP](#) (Systems Thinking for Efficient Energy Planning) working with the Center for Sustainable Energy on a web-based environment to support community engagement in urban energy planning (Jan 2015 - Oct 2015)
- Delivering Balanced Digital Productivity, an [impact accelerator project](#) working with the personal productivity training company, Think Productive, to implement learnings from the previous Digital Epiphanies project in practice (Mar 2014 - Jan 2015)
- [Digital Epiphanies](#), which was focused on understanding the roles of digital technologies in the context of 'work life balance', including their roles in the complex systems that bring about beneficial/detrimental work-life balance, and to identify potential 'points of intervention' where digital technologies may be able to make a 'positive' contribution (Mar 2013 - Feb 2014)
- A short study, [Virtual Adaptation](#), funded by the [Cabot Institute](#) into the potential applications of ICT in enabling effective adaptation to climate change (Dec 2012-Feb 2013)
- The [Sympact project](#), that worked with the [Guardian Newspaper](#) to assess the energy and greenhouse gas footprints of providing digital media services. Paul's work included developing methodological approaches to assess the energy and greenhouse gas (GHG) emissions of internet-based products and services. In addition he investigated how an understanding of user behaviour could improve the quality of energy and carbon footprinting (Nov 2010 - Oct 2012)
- The [Greening Events project](#), which was funded under the [Joint Information Systems Committee \(JISC\)](#), [Greening ICT Programme](#) and was based in the [Institute for Learning and Research Technology](#) (IT Services R&D/ILRT). The project took a systems perspective to investigate the potentials of ICT to enable more sustainable event organisation and management (Jan 2010 - Feb 2011)

Prior to re-joining the University of Bristol in 2010, Paul was a Senior Research Scientist at Hewlett Packard Labs, Bristol, where he was a member of both Sustainable IT Ecosystems Lab (SIEL) and Semantic and Adaptive Systems Department. While in SIEL he worked in collaboration with WWF (World Wide Fund for Nature) to develop methodologies for assessing carbon emission reduction potentials of ICT solutions. During this period he was also HP's representative on the WRI/WBCSD Greenhouse Gas (GHG) Product & Supply Chain Protocol Technical Working Group on Data & Quantification.

In addition to his work at University of Bristol, Paul is a UX (User eXperience) Analyst with [Epimorphics](#) a Linked and Open Data company based in Portishead just outside Bristol. His work there has included work on the [design and publication of open data](#) with the Environment Agency, Land Registry and Food Standards Agency.

## Keywords

- ict and sustainability
- complexity science
- human computer interaction

- life cycle assessment
- carbon footprinting
- sustainability impact assessment
- education for sustainable development
- linked data
- semantic web
- sustainable events
- social software
- digital privacy
- ict education
- science education
- socio-technical systems
- technology and society

## Memberships

## Organisations

[Department of Computer Science](#)

## Other sites

- [Computerscience](#)
- [Iirt](#)

## Research Groups

- [Bristol Interaction Group](#)
- [Engineering Systems and Design](#)

## Recent publications

- Preist, C, Schien, D & Shabajee, P, 2019, '[Evaluating Sustainable Interaction Design of Digital Services: The Case of YouTube](#)'. in: *2019 CHI Conference on Human Factors in Computing Systems Proceedings (CHI '19)*. Association for Computing Machinery (ACM)
- Shabajee, P, Preist, C, Fairbrother, M & Dewsbury, J-D, 2014, '[ICT 4 Climate Change Adaptation: Systemic and Generative Perspectives & Tools](#)'. in: Mattias Höjer, Patricia Lago, Josefin Wangel (eds) *ICT for Sustainability 2014 (ICT4S 2014)*. Atlantis Press
- Wood, S, Shabajee, P, Schien, D, Hodgson, C & Preist, C, 2014, '[Energy Use and Greenhouse Gas Emissions in Digital News Media: Ethical implications for journalists and media organisations](#)'. *Digital Journalism*.
- Preist, C, Schien, D, Shabajee, P, Wood, S & Hodgson, C, 2014, '[Analyzing End-to-End Energy Consumption for Digital Services](#)'. *Computer*, vol 47., pp. 92-95
- Schien, D, Shabajee, P, Wood, S & Preist, CW, 2013, '[A Model for Green Design of Online News Media Services](#)'. in: *Proceedings of the 22nd International Conference on World-Wide Web: WWW 2013*. ACM Press / Sheridan, Geneva, Switzerland, pp. 1111-1122
- Shabajee, P, 2013, '[HCI 4 Adaptation: A Position Paper](#)'.
- Schien, D, Shabajee, P, Yearworth, M & Preist, C, 2013, '[Modeling and Assessing Variability in Energy Consumption During the Use Stage of Online Multimedia Services](#)'. *Journal of Industrial Ecology*, vol 17., pp. 800-813
- Shabajee, P, Hiom, D & Preist, C, 2013, '[Rethinking events in higher and further education: A systemic sustainability Perspective](#)'. in: Tomas Pernecky, Michael Lück (eds) *Events Society and Sustainability: Critical and Contemporary Approaches*. Taylor & Francis Group, pp. 58-76
- Shabajee, P, Preist, CW, Fairbrother, MH & Dewsbury, J-D, 2013, '[ICT4Adaptation: ICT for Climate Change Adaptation](#)'. Cabot Institute, University of Bristol
- Shabajee, P & Preist, C, 2013, '[Digitally Assisted Life-\(Im\)Balance?](#)'.

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