Eleanor Frances TOYE SCOTT

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Overview

- Based at Cambridge Centre for Carbon Credits (4C)
- Research interest in risks and opportunities of digital technologies for promoting socially valuable and environmentally sustainable outcomes.
- Current action research: organisational barriers and opportunities for appropriate risk management in institutional acquisition and use of carbon credits for offsetting unavoidable emissions
- Psychology/Organizational Behaviour/Human-Computer Interaction background

Experience

Feb 2023 – current: Research Associate, Dept of Computer Science and Technology, University of Cambridge

• Operations lead at the Cambridge Centre for Carbon Credits (4C), spearheading our engagement with the University administration and external stakeholders to:

- acquire carbon credits for the University;
- enable staff to use them for travel offsetting.

This is action research: I will be writing up the project for publication and dissemination to academic and professional audiences.

April 2019 – Jan 2023: Research Associate, Judge Business School, University of Cambridge

• Multi-university project (Cambridge, Surrey, Bristol, Lancaster) on Next Generation Converged Digital Infrastructure (NG-CDI) for BT, jointly funded by BT and the EPSRC.

• Literature review on emerging effects of AI and machine learning for organizations, with a focus on Critical National Infrastructure.

• Recruited and interviewed ~30 senior managers; completed five case studies of high-tech businesses.

December 2006 – April 2019: Full-time homemaker/mother to three children

January 2005 – December 2006: User Experience Consultant, LBI (now Digitas), London

• Designed and ran quantitative and qualitative user studies of prototype and real-world websites and mobile phones, for clients including BT, Eli Lilley, Vodafone, NHS.

July – December 2004: Contractor, Intel Research Cambridge

• Designed and implemented a user study of a novel application for smartphones, using circular "tags" similar to QR codes.

October 2002 – June 2004: Research Associate, Computer Laboratory (now Dept of Computer Science and Technology), University of Cambridge.

• WEBKIT: designing, prototyping and evaluating tangible tools for schoolchildren to help them use web information for debate and essaywriting.

• COGNITIVE ERGONOMICS: investigating technology use in the home, using both ethnographic and experimental methods.

December 2001 to October 2002: Project Manager, Cambridge Cognition Ltd, Bottisham, Cambridge • Advised pharmaceuticals clients on CANTAB neuropsychological testing software.

May 1996 to October 1997: Research Associate, Judge Business School, University of Cambridge

• Action research with cross-functional design teams in industry, capturing shared product concepts at early stages of new product design.

October 1994 to May 1996: Customer Liaison Manager, Sibelius Software, Cambridge

• Conducted informal user surveys • Contributed to interface design and documentation • Wrote press releases and newsletter

Education

October 2002
PhD in psychology, University of Cambridge (King's College)
"Recognition of Inverted faces and Other Images in Children with Autism"
Supervisor: Prof. James Russell (now retired)
January 1995
MSc in Experimental Psychology, University of Sussex, School of Biological Sciences
June 1992
BA (hons) 2.1 in Philosophy, University of Cambridge (King's College)
Elected as a Scholar of King's College (1990)

Selected publications

Recent/forthcoming/in preparation

Stiles P, Toye Scott E and Debata P (2023) Technology, capitalism and the social contract. Business Ethics, the Environment and Responsibility, 00, 1-11 https://doi.org/10.1111/beer.12567
Toye Scott E, Stiles P and Debata P (2022) Managing New Technology: The Combination of Model Risk and Enterprise Risk Management. Working Paper No. 01/2022, Cambridge Judge Business School, University of Cambridge. https://www.jbs.cam.ac.uk/wp-content/uploads/2022/01/wp2201.pdf
Toye Scott E, Stiles P and Debata P (in preparation) Managing Digital Transformation: The Combination of Model Risk and Enterprise Risk Management.
Toye Scott E, Stiles P and Debata P (in preparation) Five Risk and Governance Themes for Improved Decision-Making in Critical National Infrastructure Industries.
Rotsos C and multiple authors (in preparation) Managing Risk in automated network infrastructures: Challenges and Opportunities.

Journals and technical reports

Blackwell AF, Rode JA and Toye EF (2009) How do we program the home? Gender, attention investment and the psychology of programming at home. International Journal of Human-Computer Studies vol. 67 (4), 324-41
Toye E, Sharp R, Madhavapeddy A and Scott D (2005) Using Smart-Phones to Access Site-Specific Services. IEEE Pervasive Computing 4 (2), 60-66
Stringer M, Rode JA, Toye E and Simpson A (2005) WEBKIT: A Case Study of Iterative Prototyping of a Tangible User Interface. IEEE Pervasive Computing 4 (4), 35-41
Blackwell AF, Edge D, Dubuc L, Rode J and Toye E (2005) Using Solid Diagrams for Tangible Interface Prototyping. IEEE Pervasive Computing 4 (4), 74-77
Toye EF, Madhavapeddy A, Sharp R, Scott DJ, Blackwell AF and Upton E (2004) Using Cameraphones to Interact with Context-Aware Mobile Services. University of Cambridge Computer Laboratory Technical Report UCAM-CL-TR 609, 23 pages.
 Rode JA, Toye EF and Blackwell AF (2004) The Fuzzy Felt Ethnography: Understanding Programming Patterns of Domestic Appliances. Appliance Design 2004, reprinted in Personal and Ubiquitous Computing vol. 8, 161-176

Refereed Conference Papers

Rode JA, Toye EF and Blackwell AF (2005) The Domestic Economy: A Broader Unit of Analysis for End User Programming. CHI 2005, 1757-1760
Blackwell AF, Stringer M, Toye EF and Rode JA (2004) Tangible Interface for Collaborative Information Retrieval. CHI 2004, 1473-1476
Stringer M, Toye EF, Rode JA and Blackwell AF (2004) Teaching Rhetorical Skills with a Tangible User Interface. Interaction Design and Children 2004, 11-18
Rode JA, Stringer M, Toye EF, Simpson A and Blackwell AF (2003) Curriculum-focused Design. Interaction Design and Children 2003, 119-126
Stringer M, Rode JA, Blackwell AF and Toye EF (2003) Facilitating Argument in Physical Space. Ubiquitous Computing 2003, 123-6
Stringer M, Rode JA, Toye EF and Blackwell AF (2003) Iterative Design of Tangible User Interfaces. British Computing Society's Conference on Human Computer Interaction 2003