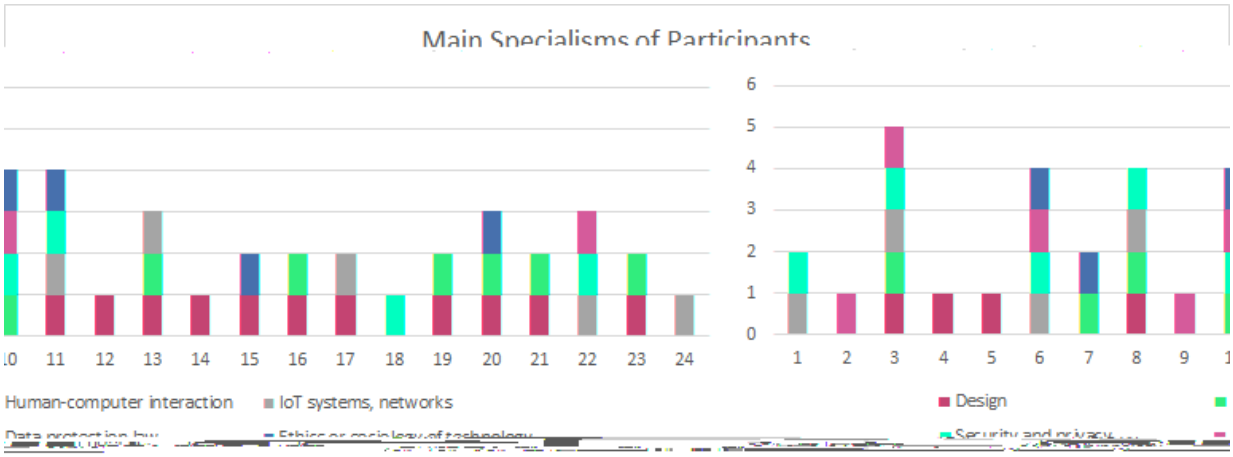
Participation

A call for Expressions of Interest was publicised on the project website, and attendees were selected from submissions made. The call form can be found here.

Selection aimed to balance participation from academia and industry, representation of different research areas, career stage, strategic awareness and emphasised multidisciplinarity. 50% of the participants identified as female, and 33.3% identified as male.

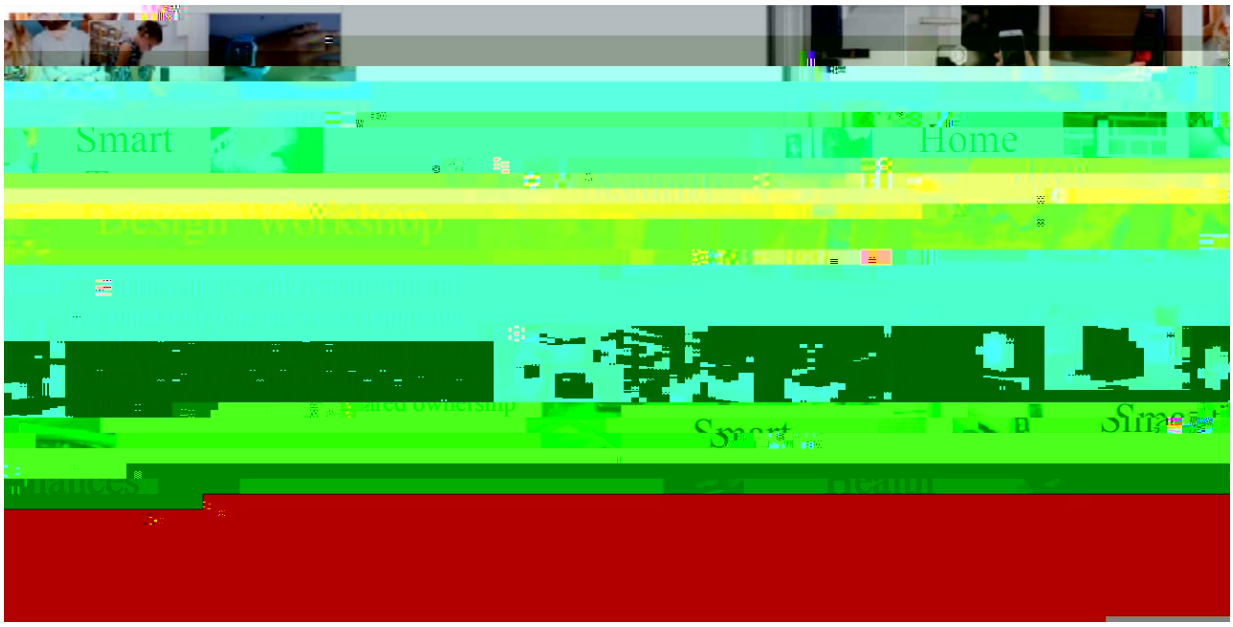
	Applicants	Selected
Career stage (self-determined)	74.4% Early-career 25.6% Established	79.2% Early-career 20.8% Established



A complete list of attendees and their affiliations is available in Annex 7.a.

Workshop Structure

Due to the Covid_19 restrictions, our initial plans to run a physical workshop with ECRs had to be scrapped. Instead, we revised our project plan to run online workshops across two days and got ethical approval through Brunel University London.



The workshop focused on four use-cases. 1) Home security, 2) Smart appliances, 3) Smart health ad 4) Smart toys. We have planned but not run the use-case Smart Entertainment due to the change in the number of participants on the workshop days and participant interests.

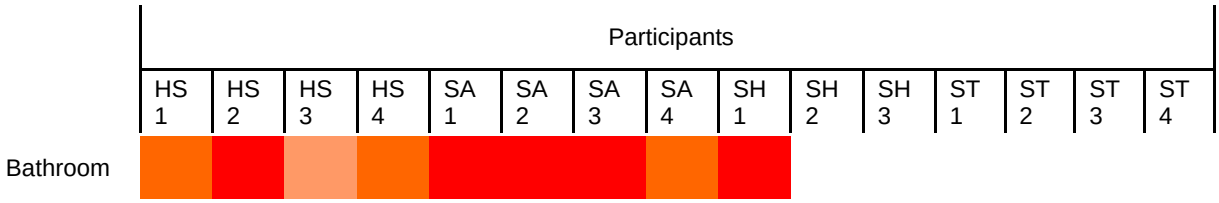
We chose Zoom and Miro as the online platforms to conduct the workshops. One of the main reasons for choosing Zoom was its ôbreakout roomô feature, which helped split the groups into four rooms, one for each use-case. Miro was used as an online whiteboard collaborative platform, where workshop activities were predesigned and facilitated for each use-case.

The workshop agenda, Participant Information and Consent Forms were provided to the participants before the workshop. An introductory presentation was provided to highlight the purpose of the day and how to use Miro.

Expert Talks
The workshop started with expert talks given by Professor Abigail Durrant (Newcastle University), Dr Lachlan Urquhart (University of Edinburgh), and Dr Poonam Yadav (University of York). The speaker bios can be found in Appendix 7.b.

The speakers presented their work highlighting the different viewpoints from Human-Computer Interaction, Law and Networked Systems. Professor Abigail Durrant gave a talk on ñCo-creative Research on IoT with Childrenò Dr Lachlan Urquhart presented ñRegulating and Designing Future Smart Buildingsò Dr Poonam Yadavôs talk focused on ñA step towards building resilient, robust and trustable IoTò

The panel session with the experts revolved around several challenges faced when designing IoT


Participants
HS 1
HS 2
HS 3
HS 4
SA 1
SA 2
SA 3
SA 4
SH 1
SH 2
SH 3
ST 1
ST 2
ST 3
ST 4
Bathroom

Smart Toys : The scenarios considered two situations that involved a young child, parents, caregivers from the family, and a nanny. The smart toy capabilities changed in each scenario: (i) the smart toy that can record audio and video, and (ii) the smart toy can also perform emotion detection. The participants were asked the agency of different parties, e.g.,

	Smart Appliances	Home Security	Smart Health	Smart Toys
Designer	How the public acceptance of the technologies and governmental oversight would be crucial.	Better communication and understanding between designers and technologists. Better design to personalise the products.	Better connectedness and interoperability	The focus is on the tactile interface but not so much on the data design . This should change.
Technologist	Smart technologies designed to facilitate users may end up burdening users with the management of those technologies.	Playing devilôs advocate: users should be more vigilant about the products and privacy a user issue ?		Playing devilôs advocate: We try to do our best. We add lots of protections already .
User with privacy concerns	How may marginalised groups suffer from the lack of support or options of ñnon-smartò technologies?	Using co-design to empower the users in the design process while holding the governments and regulations accountable.	The accuracy of the data shared and the possible decisions made from the ónaccurateôdata. What are the possible ways to overcome this?	As more and more valuable data stored at home , how will we be able to protect ourselves in the future
User with fewer privacy concerns	The possibility that certain technologies may become mandatory for everyone in the future.		The safety with vulnerable user groups (i.e. elderly) and ethical implications of the data collected and stored.	
Lawyer /legal tech expert		Giving better transparency and understanding to the user. Technologists have a responsibility to provide better information on the product.		Lawyers should cooperate with designers to ensure that they take into account legal considerations (data minimisation, data protection by default, consent)
Government Regulator	How the authority may show apprehension towards corporate powers possessed by tech giants but at the same time may be tempted to utilise such technologies to exert control ;	The need to bring objective actors into the decision-making process such as academics and think tanks ñto provide a path to utopian future.ò	The governmentsô responsibility to make sure an inclusive approach is practised and everyoneôs voice is heard in the process	Concerns around the global value chains , who is controlling what, who is processing what. A regulatory sandbox for smart toys needed.

Appendices

Full participant listing

Name	Institution
Abigail Durrant	Newcastle University, UK
Lachlan Urquhart	University of Edinburgh, UK
Poonam Yadav	University of York, UK
Sameh Zakhary	University of Nottingham, UK
Nevena Balezdrova	Brunel University London, UK
Damla Kilic	University of Nottingham, UK
Israel Cedillo Lazcano	Universidad Las Americas Puebla, Mexico
Shruthi Venkat	Slow Studio, India
Stanislaw Piasecki	University of Nottingham, UK
Leigh Clark	Swansea University, UK
Guido Noto La Diega	University of Stirling, UK
Sarah Turner	University of Kent, UK
Nandita Pattnaik	University of Kent, UK
Gubing Wang	TU Delft, Netherlands
Luis Soares	University of Edinburgh, UK
Kuntal Shah	Oxford Brookes University, UK
Isabel Prochner	Syracuse University, USA
Cecilia Lee	Royal College of Art, UK
Sukanta Majumdar	School of Planning and Architecture, Bhopal, India
Farid Vayani	University of Nottingham, UK
Heekyoung Jung	University of Cincinnati, USA
Nils Ehrenberg	Aalto University, Finland
Tracy Ross	Loughborough University, UK
Yang Lu	University of Kent, UK

Speaker Bios

Prof. Abigail Durrant

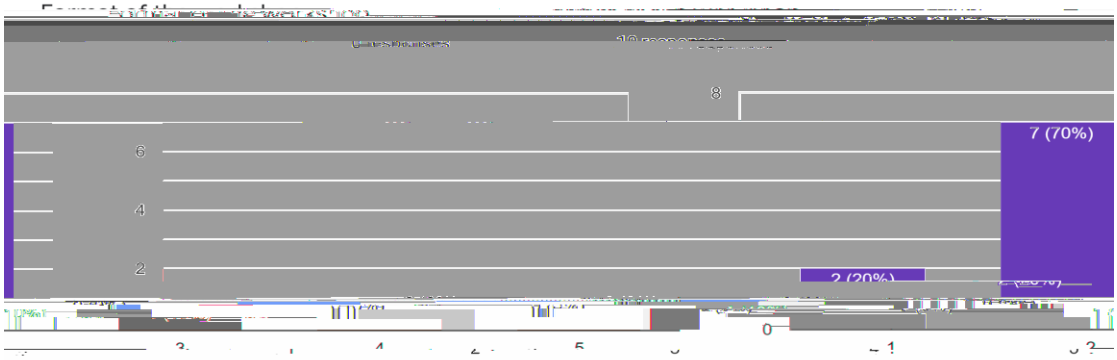
I am an interaction design practitioner and researcher, predominantly working in the field of Human-Computer Interaction (HCI), at Open Lab, Newcastle University: https://openlab.ncl.ac.uk/.

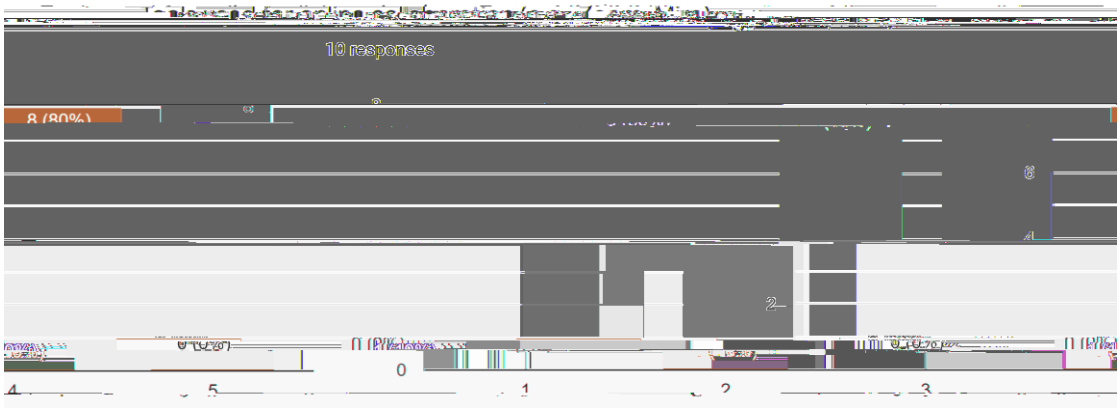
My research addresses the significant design challenges that we face for managing identity in our everyday interactions with digital technologies and personal data. I have explored trusted data sharing and the digital representation of individuals and communities in different contexts, including the home and within family relationships, neighbourhoods, and local community settings. I have a longstanding interest in design research methods for interdisciplinary projects (www.abigaildurrant.com/) and am a steering committee member for Research through Design (RTD) Conference: www.researchthroughdesign.org.

I am currently Principal Investigator for the EPSRC-

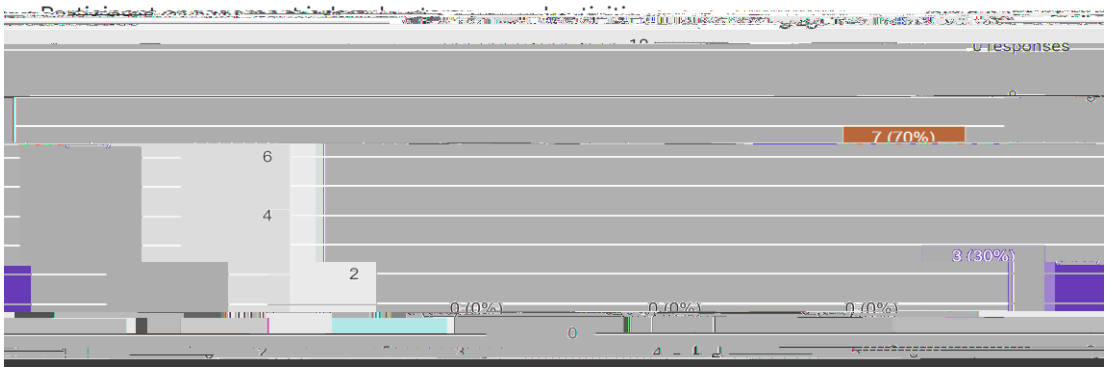
Feedback

Results of the participant survey.


10 responses
8
6
4
2
0
7 (70%)
2 (20%)


10 responses
8 (80%)
8
6
4
2
0

Moderators handling of virtual tables
10
7.5
5.0
2.5
9 (90%)
1 (10%)
1
2
3
4
5


10 responses
8
6
4
2
0
7 (70%)
3 (30%)
0 (0%)
0 (0%)
0 (0%)