CURRICULUM VITAE Winter 2023

THE UNIVERSITY *of* EDINBURGH
Edinburgh Futures Institute

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DOB: 16th April 1970

Nationality: British

University Education:

Leicester Polytechnic; Brighton Polytechnic; Manchester Metropolitan University; Goldsmiths, University of London; University of Plymouth.

Degrees awarded (give university, class of degree and dates)

2007   PhD University of Plymouth

1999   MA Design Futures, Goldsmiths, University of London

1993   P.G.C.E. Manchester Metropolitan University

1992   Fine Art BA(Hons). University of Brighton. Grade: 2:1

1988   Art Foundation. Leicester Polytechnic. Grade: Merit

Career since graduation:

2022   Director of the Edinburgh Futures Institute

2021   Visiting Professor, University of New South Wales, Australia

2021   Visiting Professor TUDelft, Netherlands.

2014   Adjunct Professor Skoltech, Moscow.

2013   Chair of Design Informatics, University of Edinburgh.

2008   Reader, Edinburgh College of Art.

2006   Senior Lecturer, University of Plymouth.

2001   Programme Manager for the BA(Hons) & Bsc(Hons) Digital Art & Technology course (formerly BSc (Hons) MediaLab Arts).

1996   Lecturer in Digital Media, University of Plymouth

1995   Art Editor, New Media, Marshall Cavendish, London

1993   Art and Design Teacher at Secondary level for one year at Senacre Technology School, Maidstone.

Bio

Chris Speed is Chair of Design Informatics at the University of Edinburgh where his research focuses upon the Network Society, Digital Art and Technology, and The Internet of Things. Chris holds two Directorships at the University of Edinburgh:

2022 – Present Director, Edinburgh Futures Institute, transforming the 22,000m^2 Old Royal Infirmary of Edinburgh, a Florence Nightingale hospital in the centre of Edinburgh, into a world leading centre for interdisciplinary teaching, research and innovation. The purpose of the Edinburgh Futures Institute is to pursue knowledge and understanding that supports the navigation of complex futures. EFI's distinctiveness stems from our approach to research and innovation, education and engagement – an approach that combines multi-disciplinarity with co-production. Working with industry, government and communities at home and abroad, EFI aims to build a challenge-led and data-rich portfolio of activity that has demonstrable ethical, social, cultural, economic and environmental impacts.

2018 – Present Director of Creative Informatics, one of nine UK government funded research and innovation clusters (£7.4m) that is specifically designed to support the development of new products and services for the Creative Industries. Started in 2018, this 4.5 year major programme is the only one of its kind in the UK that combines the expertise of a world leading centre for excellence in data science, with the rich cultural networks that place Edinburgh as an international destination for the creative industries.

2012-2022 Co-Director of the Institute for Design Informatics, which he has led since its inception in 2012 to become the largest, most successful research centre in the College of Arts, Humanities and Social Science at the University of Edinburgh, and one of the highest growth departments in interactive media in the UK. Uniquely positioned across the Schools of Design at Edinburgh College of Art, and the world class School of Informatics at Edinburgh, the Institute is home to 80 staff across research, technical and professional services, masters and PhD programmes, and with over £21m in grant income, the Institute is at the international forefront of design for human-data interactions.

2020-2022 Director for Innovation, Edinburgh Futures Institute, based upon the momentum of the Institute for Design Informatics, and the impact across innovation for the Creative Informatics programme, Chris led the initial development of the Innovation culture within the Edinburgh Futures Institute, a unique teaching, research and innovation project (opening in 2023) that is focused upon the challenges and opportunities posed by the revolution in data, digital and artificial intelligence.

Throughout his career Chris has sustained a critical and ethical enquiry into how network technology can engage with the fields of art, design and social experience through a variety of international digital art exhibitions, funded research projects, books journals and conferences.

Chris has been involved in 48 research projects since joining the University of Edinburgh, leading on 19 projects worth a total of £13.5.mil and Co-Investigating 29 projects worth in excess of £76mil.Chris was PI for the TOTeM project investigating social memory within the 'Internet of Things' funded by the Digital Economy (£1.4m) and the related Research in the Wild grant: Internet of Second Hand Things (£250k); PI for three AHRC Connected Community grants under the moniker Community Hacking that explores parallels between virtual society and actual society (£120k); Co-I to the Sixth Sense Transport RCUK funded Energy project (£900k) which explored the implications for the next generation of mobile computing for dynamic personalised travel planning. He was PI to the EPSRC funded Connected High

Street project (£350k) with University of Dundee and NCR, and Co-I to the AHRC funded Design in Action Knowledge Exchange Hub (£6m). He is currently PI to the EPSRC TIPS grant OxChain (£1mil), PI to the ESRC After Money project (£250k), Co-I to the £5mil PETRAS IoT Hub and Co-I to the EPSRC TIPS PACTMAN grant (£1mil). Chris is Director of the £6mil (£5.5Mil AHRC & £0.5Mil SFC) Creative Informatics R&D Partnership, one of the nine AHRC funded Creative Industries Clusters in the UK, and is Co-I to the Next Stage Digital Economy Centre DECaDE led by Surrey with the Digital Catapult. Chris was made a Fellow of the Royal Society of Edinburgh in 2020.

In 2020 Chris was awarded the Chancellors Award for Research at the University of Edinburgh, the most prestigious recognition for commitment, expertise and experience in the development of research cultures and economies.

Principal research grants

1. Co-I to EKIP: 'A culture and creativity driven European innovation ecosystem – a collaborative platform' led by Lunds Universitet, with Stichting Nederlands Instituut Voor Beeld En Geluid, Humak University Of Applied Sciences Humak, Technische Universiteit Delft, Politecnico Di Milano Polimi, Metropolitny Institut Bratislavy Brat, Cite Du Design-Ecole Superieure D'art Et De Design S-E. €6m total with the Edinburgh value is approx. £500k.

2. Co-I to AHRC The New Real - Trust And Acceptance In Networked, Online Experiences To Enable And Support Post-COVID19 Recovery project: AH/V015176/1. £374,278, Jan 21 - Oct 22.

3. PI to EPSRC / Digital Economy Telling Tales of Engagement award 2021: Social, Economic and Environmental Entanglements in the Digital Economy, £10k with Dr Martin Glynn, Bakita Kasadha and Dr Nicky Melville.

4. Co-I to Future Infrastructure for Retail Remittances (FIRE) project with UCL, £280k for 18 months from May 2021 (funded through the UKRI PETRAS National Centre of Excellence in technological advances in the Internet of Things (IoT).

5. Co-I to Beyond the 10,000 steps: Managing less visible aspects of healthy ageing at work, part of ISCF Healthy Ageing, Social, Behavioural and Design call £1.97m led by Edinburgh Business School

6. Co-I to Healthier Working Lives And Ageing For Workers In The Care Sector: Developing Careers, part of ISCF Healthy Ageing, Social, Behavioural and Design call £1.67m led by Edinburgh Business School

7. Co-I to Innovate UK, Healthy Ageing Trail Blazer: Blackwood Neighbourhoods for Independent Living TS/V02759X/1 Total: £770k

8. PI to Design Lab: DDI Beacon project. £600k SFC. November to end of July 2021. With Cassells, G. (Co-I).

9. Co-I to GiftGuard: EIT Digital - Digital Innovation Factory. EUR £600k, Est. £50k for UoE. Grant led by Insurgent Studios with other industry partners. Begins January 2021.

10. Co-I to Marie Skłodowska-Curie Innovative Training Network: D-CoDE (Fundamentals of Design Competence for Our Digital Future) with Technische Universiteit Delft, Umea Universitet, Kobenhavns Universitet, Aarhus Universitet Dk, Transport And Telecommunication Institute Lv, Stichting Hogeschool Van Amsterdam, and Philips Electronics. Total value: €4m (€900k for Edinburgh) 48 months from January 2021.

11. Co-I to EPSRC Next Stage Digital Economy Centre in the Decentralised Digital Economy (DECaDE) led by Surrey with the Digital Catapult. Total value: £4.6mil (£900k for Edinburgh) 60 months from October 2020.

12. Co-I to the Understanding the Person in Context theme, Advanced Care Research Centre, University of Edinburgh. Programme exploring data driven models of care. Funded by Legal & General. Total value: £20mil months from April 2020.

13. Co-I to EPSRC PETRAS (privacy, ethics, trust, reliability, acceptability, and security) National Centre of Excellence for IoT Systems Cybersecurity part of the Securing Digital Technologies at the Periphery (SDTaP) programme with 11 Universities and 110 industrial and government User Partners in cross-disciplinary collaboration (EP/S035362/1). Total value: £13.8mil 36 months from March 2019.

14. Co-I to Creative Communities SUII networking grant with GSA addressing mental health in rural communities. Total value: £19,980. Sept 2019-Summer 2020.

15. Co-I to Seamless Access to Inclusive Digital Services (SAIDS), European Social Fund Social Innovation Fund with Mydex Total amount: £139,557.14. Jan 2019 - Jan 2020.

16. PI to AHRC Creative Informatics: Data Driven Innovation for the Creative Industries AH/S002782/1 with Edinburgh Napier University, CodeBase & Creative Edinburgh. £7.6m (AHRC £5.5mil, SFC £500k, DDI £1.6m) 4.5 years Sept 2018 - Mar2023.

17. PI to EPSRC Qualified Selves: Co-Creating Meaning Post-Big Data. EP/R033064/1. £290k 18months

18. Co-I to EU Blockchain4EU Project with Larissa Pschetz including workshop and commissioning of Design Prototypes. €5k.

19. PI to Digital Health Institute grant: Active Backs e-Health app. £49,500. Start Jan 1st. 6 Months.

20. PI to EPSRC Digital Economy Ox-Chain: Towards secure and trustworthy circular economies through distributed ledger technologies. With Lancaster, Newcastle and Oxfam. EPSRC Ref: EP/N028198/1. Total value: £1,238,245. 36 months from Summer 2016.

21. Co-I to EPSRC Digital Economy PACTMAN: Trust, Privacy and Consent in Future Pervasive Environments, led by Lancaster with University of Essex. EPSRC Ref: EP/N028228/1. Total value: £1,262,703. Edinburgh receive: £302,175.00. 30th months from Summer 2016.

22. Co-I to EPSRC Digital Economy Cyber Security of the Internet of Things. UK Internet of Things Hub with 8 other Universities. Edinburgh are a spoke EPSRC ref: EP/N02334X/1. Total value: £4,559,841. Edinburgh receive £247,000. 36 months from Feb 29th 2016.

23. Co-I to EPSRC Academic Centre of Excellence in Cyber Security Research - University of Edinburgh. EP/R007144/1. £81,715 led by Aspinall.

24. PI to ESRC After Money: After Money: If you change the representation of value, does it change the values that you can represent? With the Royal Bank of Scotland and the New Economics Foundation. £250k ESRC Reference: ES/N007018/1.

25. PI Academic to: Innovate UK: Creating and Controlling a Personal Data Store Innovate UK under the theme Enhancing user experience with personal data. Total grant: £33,167. Innovate UK Application Number: 422179

26. Co-I to: AHRC funded Rules of Thumb: An Investigation into the Potential of Contextual Transposition in Social Design led by Brighton, with Lancaster, Open University. Total: £14,897.

27. Co-I to AHRC ARTIST ROOMS on Tour: Encounters in and beyond the ROOM. School of Education, Sociology & Design Informatics. Exploring how a mobilities perspective can provide new insights into and strategies for museum and gallery engagement and evaluation. Ref: AH/M008177/1. Led by Jen Ross with Jeremy Knox. £187k.

28. PI to Skoltech Foundation funded project ThingTank with TUDelft and University of Electro-Communications, Tokyo $495k per annum. 2014-2015.

29. PI to EPSRC Connected High Street, Internet of Things Research in the Wild project with University of Dundee and NCR Corporation £379,534, EP/L02358X/1

30. PI to AHRC Communities within spaces of flows, Connected Communities project with Bournemouth University, £40k AH/L013258/1

31. Co-I to Design in Action: AHRC Knowledge Exchange Hub for the Creative Economy. Led by Dundee, with St.Andrews, Robert Gordon, GSA, Abertay and V&A Dundee. £6.5M. AH/J005126/1

32. PI to SICSA / Smart Tourism award: Travelling Treasures £40k with Edinburgh Museum and Galleries, The Assembly Rooms & Lothian Buses.

33. Co-I to EPSRC Digital Economy HAT: Hub-of-all-Things as Platform for Multi-sided Market powered by Internet-of-Things: Opportunities for New Economic & Business Model. £1.2 million with Warwick, Cambridge, Exeter, Nottingham and West England. EPSRC Reference: EP/K039911/1

34. PI to EPSRC The Internet of Secondhand Things: Object biographies, consumption pathways and re-valuing goods. £250k with UCL and Oxfam, 18 months, 2013 EPSRC Reference: EP/K012819/1.

35. Co-I to EPSRC Creating trust through digital traceability: sustainable food chains and new ways to connect producers and consumers £250k with University of Durham, 18 months, 2013. EPSRC Reference: EP/K012126/1

36. Co-I to EPSRC Research in the Wild Learning Energy Systems: A dynamic innovative solution to reducing energy demand (£300k), Edinburgh for 18 months, starting 2013. EPSRC Reference: EP/K012789/1

37. Co-I to AHRC Cinematic Geographies of Battersea: Urban Interface and Site-Specific Spatial Knowledge with Universities of Cambridge, Liverpool and Edinburgh in partnership with the Survey of London at English Heritage (EH). Reference: AH/I022252/1

38. Co-I to EPSRC SeRTES £250k Digital Economy project in collaboration with Warwick, Aberdeen, LSE, City University and Newcastle. 9 month, 2012. EPSRC Reference: EP/J021601/1

39. PI to AHRC Ladders to the Cloud, £40k follow-on funding for the Community Web 2.0 project with Heriot Watt, Leicester and RCHAMS. AHRC Reference: AH/J006734/1

40. Co-I to AHRC Memories of Mr Seel's Garden, £100k Pilot Demonstrator project under the Connected Communities research theme, with Manchester, Liverpool, RCAHMS and Transition Liverpool, Friends of Everton Park, Friends of Sudley Estate. AHRC Reference: AH/J006629/1

41. Co-I to AHRC The Time of the Clock and the Time of Encounter: Pathfinders for Connection, Connected Communities research project £100k. with

University of Central Lancashire, Manchester and Aberdeen. AHRC Reference: AH/J006637/1

42. Co-I to AHRC Localism and Connected Community Planning £40k with Birmingham, Cardiff University. AHRC Reference: AH/J006580/1

43. PI to AHRC Community Web 2.0: Creative control through hacking £40k Connected Communities follow up funding with University of Leicester and Brunel University, 2011. AHRC Reference: AH/I507620/1

44. PI to EPSRC Travel Behaviours Network £150k 2011-2015. EPSRC Reference: EP/J00510X/1

45. Co-I to EPSRC 6th Sense Transport project £900k in collaboration with Southampton, Bournemouth, Salford and Lancaster, 2011-2014. EPSRC Reference: EP/J004650/1

46. PI Edinburgh Beltane Tagging Technology small grant for public engagement workshop with anti tagging organisation NO2ID. £1.5k

47. Studentship: Are we nearly there yet? Supported by Microsoft / Dorothy Hodgkins fund, University of Dundee and Edinburgh College of Art. Value £60k 2010

48. PI to JISC Walking Through Time £38k in collaboration with University of Edinburgh. Part 1 June 2009. Plus a further £10k from JISC to extend the research. Part 2 May 2010.

49. PI to EPSRC Digital Economy TOTeM project £1.39 million in collaboration with UCL, Brunel, Salford and Dundee, 2009-2012. EPSRC Reference: EP/H007318/1.

50. PI Creative Partnerships, Summer 2005 to develop IBeam Dyslexics Edition in collaboration with Plymouth Arts Centre and Looe Community School. £7k.

51. Knowledge Transfer Partnership Logo Design, Ivybridge 2005-2007 C.Speed & A.Phippen (100k)

52. Knowledge Transfer Partnership CMA, Yealmpton 2003-2005 C.Speed & M.Phillips (100k)

53. Teaching Company Scheme Timothy Guy Design, Falmouth 2000-2002 Dr. P.Jagodzinski & C.Speed (70k)

PUBLICATIONS

Joint articles, Chapter and Conference papers (PURE, Google Scholar)

1. Ruta, D., Gilbert, A., Aggarwal, P., Marri, N., Kale, A., Briggs, J., Speed, C., Jin, H., Faieta, B., Filipkowski, A., Lin, Z. & Collomosse, J., (2022) StyleBabel: Artistic style tagging and captioning in *Computer Vision – ECCV 2022.* Avidan, S., Brostow, G., Cissé, M. & Farinella, G. M. (eds.). Springer, p. 219-236 18 p.

2. Chen, K., Fu, X. & Speed, C. (2022) User-friendly interactive affective system to leverage aggressive driving behavior. Chinese CHI 2022, Guangzhou, China and Online, China. Best Paper Award. Awaiting DOI

3. Thorp, J., Lechelt, S., Soares, L., Gorkovenko, K., Speed, C., Stead, M., Dunn, N. & Richards, D. (2022) Towards Sustainable Internet of Things Objects Design Strategies for End-of-Life. Proceedings of "Design for Adaptation" Cumulus, Detroit 2022, November 2-4. Awaiting DOI

4. Elsden, C., and Speed, C. (2022) Designing new money: Creative transactions on Twitch, in Lockton, D., Lenzi, S., Hekkert, P., Oak, A., Sádaba, J., Lloyd, P.

(eds.), *DRS2022: Bilbao*, 25 June - 3 July, Bilbao,
Spain. https://doi.org/10.21606/drs.2022.574

5. Light, A., Gray, C. M., Lindström, K., Forlano, L., Lockton, D. & Speed, C.
(2022) Designing Transformative Futures, (Accepted/In press) Design
Research Society 2022. 16 p. https://doi.org/10.21606/drs.2022.896

6. Murray-Rust, D., Elsden, C., Nissen, B., Tallyn, E., Pschetz, L. & Speed, C.
(2022) Blockchain and beyond: Understanding blockchains through prototypes
and public engagement. ACM Transactions on Computer-Human Interaction.
https://doi.org/10.1145/3503462

7. Speed, C., Rankin, J., Elsden, C., and Vines, J. (2022) The future of money as
a design material, in Lockton, D., Lenzi, S., Hekkert, P., Oak, A., Sádaba, J.,
Lloyd, P. (eds.), *DRS2022: Bilbao*, 25 June - 3 July, Bilbao,
Spain. https://doi.org/10.21606/drs.2022.785

8. Winter, E., Knowles, B., Richards, D., Snooks, K., and Speed, C. (2022)
Multitudes: Widening the research agenda for personal informatics design, in
Lockton, D., Lenzi, S., Hekkert, P., Oak, A., Sádaba, J., Lloyd, P.
(eds.), *DRS2022: Bilbao*, 25 June - 3 July, Bilbao,
Spain. https://doi.org/10.21606/drs.2022.415

9. Lee, Y., Pschetz, L., and Speed, C. (2022) Investigating materiality for a
renewed focus on data design practice, in Lockton, D., Lenzi, S., Hekkert, P.,
Oak, A., Sádaba, J., Lloyd, P. (eds.), *DRS2022: Bilbao*, 25 June - 3 July,
Bilbao, Spain. https://doi.org/10.21606/drs.2022.350

10. Giaccardi, E., Speed, C., Redström, J., Ben Allouch, S., Shklovski, I., and
Smith, R.C. (2022) AI and the Conditions of Design: Towards A New Set of
Design Ideals, in Lockton, D., Lenzi, S., Hekkert, P., Oak, A., Sádaba, J.,
Lloyd, P. (eds.), *DRS2022: Bilbao*, 25 June - 3 July, Bilbao,
Spain. https://doi.org/10.21606/drs.2022.1078

11. Speed, C. & Disley, M. (2021) Intra-actions in data-driven systems: A case
study in creative praxis. Eds by Lushetich, N. and Campbell, I.: Distributed
Perception; Routledge, London. https://doi.org/10.4324/9781003157021

12. Soares, L., Speed, C., Stewart, J. & Alexander, D. (2021) A 'seamless'
experience of data sharing through a 'seamful' engagement. *Safe Harbours for
Design Research. In: 14th International Conference of the European Academy
of Design. [online] Lancaster: Blucher. Available at:
https://www.proceedings.blucher.com.br/article-details/a-seamless-
experience-of-data-sharing-through-a-seamful-engagement-36966 DOI:
10.5151/ead2021-144*

13. Valeonti, F.; Bikakis, A.; Terras, M.; Speed, C.; Hudson-Smith, A.; Chalkias, K.
(2021) Crypto Collectibles, Museum Funding and OpenGLAM: Challenges,
Opportunities and the Potential of Non-Fungible Tokens (NFTs). Appl.
Sci. 2021, 11, 9931. https://doi.org/10.3390/app1121993

14. Soares, L., Stewart, J., Alexander, D., Speed, C. (2022). Reconciling the Gap
Between Seamless and Seamful Design Approach. In: Bruyns, G., Wei, H.
(eds) [ ] With Design: Reinventing Design Modes. IASDR 2021. Springer,
Singapore. https://doi.org/10.1007/978-981-19-4472-7_124

15. Pothong, K. Speed, C., Catlow, R., Dixon, B., Morgan, E., Knowles, B.,
Newmarch, G., Richards, D., Cruickshank, L. (2021) Deliberating data-driven
societies through live action role play. ACM Designing Interactive Systems
Conference, July 2021. https://dl.acm.org/doi/abs/10.1145/3461778.3462028

16. Terras, M., Coleman, S., Drost, S., Elsden, C., Helgason, I., Lechelt, S., Osborne, N., Panneels, I., Pegado, B., Schafer, B., Smyth, M., Thornton, P., & Speed, C. (2021). The value of mass-digitised cultural heritage content in creative contexts. *Big Data & Society*. https://doi.org/10.1177/20539517211006165

17. Chris Elsden, Evan Morgan, Chris Speed, Creative Transactions: Special Digital Monies in 'Break Kickstarter' Crowdfunding Campaigns. In CHI Conference on Human Factors in Computing Systems (CHI '21). ACM, 13 pages. https://doi.org/10.1145/3411764.3445632

18. Nic Bidwell, Chris Elsden, Ludwig Trotter et al. A Right Time to Give? Beyond Saving Time in Automated Conditional Donations. In CHI Conference on Human Factors in Computing Systems (CHI '21). ACM, 13 pages. https://dl.acm.org/doi/10.1145/3411764.3445371

19. Rankin, R., Elsden, C., Sibbald, I., Stevenson, A., Vines, J. Speed, C. (2020) PizzaBlock: Designing Artefacts and Roleplay to Understand Decentralised Identity Management Systems. DIS '20: Proceedings of the 2020 ACM Designing Interactive Systems ConferenceJuly 2020 Pages 1593–1606 https://doi.org/10.1145/3357236.3395568

20. Speed, C., Elsden, C. & Nissen B. (2020) Editorial for Ubiquity: Journal of Pervasive Media, Vol 6. Issue 1.

21. Chris Elsden, Chris Speed, Kate Symons, John Vines, A. Spaa. (2020) Searching for an OxChain: Co-designing blockchain applications for charitable giving. Ubiquity: Journal of Pervasive Media, Vol 6. Issue 1. https://doi.org/10.1386/ubiq_00002_1

22. Elsden, Chan, Erskine, Helgason, Lechelt, Osborne, Speed. (2020, August 12). Creative Informatics Guide for Online Events (Version 1.0). Zenodo. http://doi.org/10.5281/zenodo.3980961

23. Chris Elsden, Chris Speed, Bettina Nissen, Dave Murray-Rust., Ella Tallyn (2020) Four manifestos from 'HCI for Blockchain': A 2018 CHI workshop, Ubiquity: Journal of Pervasive Media, Vol 6. Issue 1. https://doi.org/10.1386/ubiq_00004_7

24. Chris Elsden, Tom Feltwell, Belén Barros Pena, Bettina Nissen, Inte Gloerich, Chris Speed, and John Vines. (2020) Designing Futures of Money and FinTech. ACM Designing Interactive Systems Conference, July 2020 https://doi.org/10.1145/3393914.3395904

25. Lechelt, S., Gorkovenko, K., Speed, C., Stead, M. Thorp J. K., and Soares L. (2020) Designing for the End of Life of IoT Objects. CM Designing Interactive Systems Conference, July 2020. https://doi.org/10.1145/3393914.3395918

26. Trotter, L., Harding, M., Elsden, C., Davies, N. and Speed, C. (2020). A Mobile Platform for Event-Driven Donations Using Smart Contracts. In Proceedings of the 21st International Workshop on Mobile Computing Systems and Applications (HotMobile '20). Association for Computing Machinery, New York, NY, USA, 108. DOI: https://doi.org/10.1145/3376897.3379161

27. Lechelt, Z., Elsden, C., Speed, C., Helgason, I., Paneels, I., Smyth, M. & Terras, M., (2019) How can we balance research, participation and innovation as HCI researchers? *Proceedings of the Halfway to the Future Symposium 2019.* ACM, 4 p. 19 Nov 2019. https://dl.acm.org/doi/pdf/10.1145/3363384.3363394?download=true

28. Elsden, C, Symons, K, Bunduchi, R, Speed, C & Vines, J 2019, 'Sorting out valuation in the charity shop: Designing for data-driven innovation through value translation', *Proceedings of the ACM on Human-Computer Interaction*, vol. 3, 109. https://doi.org/10.1145/3359211

29. Khairuddin, IE, Sas, C & Speed, C 2019, BlocKit: A physical kit for materializing and designing for blockchain infrastructure. in *Proceedings of the 2019 ACM Conference on Designing Interactive Systems.* ACM, San Diego, California, Designing Interactive Systems (DIS) 2019, San Diego, United States, 23/06/19. https://doi.org/10.1145/3322276.3322370

30. Speed, Nissen, Pschetz, Murray-Rust, Mehrpouya, Oosthuizen. Designing New Socio-Economic Imaginaries. EAD2019 Running with Scissors [conference proceedings] Dundee, April 2019. *13th European Academy of Design Conference Proceedings.* https://doi.org/10.1080/14606925.2019.1595023

31. Pschetz, L., Pothong, K., Speed, C. 2019. Autonomous Distributed Energy Systems: Problematising the Invisible through Design, Drama and Deliberation. In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI '19). ACM, New York, NY, USA, Paper 387, 14 pages. DOI: https://doi.org/10.1145/3290605.3300617

32. Chris Elsden, Ludwig Trotter, Mike Harding, Nigel Davies, Chris Speed, John Vines. 2019 Programmable Donations: Exploring Escrow-based Conditional Giving. In *CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2019)*, May 4–9, 2019, Glasgow, Scotland UK. ACM, New York, NY, USA, 13 pages. https: //doi.org/10.1145/3290605.3300609

33. Khan A, Speed C. (2019). Exploring "Hacking," Digital Public Art, and Implication for Contemporary Governance. Advanced Methodologies and Technologies in Government and Society - (pp. 330-345). IGI Global. https://doi.org/10.4018/978-1-5225-2255-3.ch580

34. Whitham, R., Moreton, S., Bowen, S., Speed, C. & Durrant, A. (2019) Understanding, capturing, and assessing value in collaborative design research, CoDesign, 15:1, 1-7, https://doi.org/10.1080/15710882.2018.1563194

35. Speed C, Luger E. (2019). Value of Data: Shifting values. White paper for DMA: DMA https://dma.org.uk/article/introduction-to-value-of-data

36. Speed, Luger: Book Chapter - 'Sensing Data in the Home', in People, Personal Data and the Built Environment, Springer. 21st March, 2019. https://doi.org/10.1007%2F978-3-319-70875-1_6

37. Bettina Nissen, Victoria Neumann, Mateusz Mikusz, Rory Gianni, Sarah Clinch, Chris Speed, and Nigel Davies. 2019. Should I Agree?: Delegating Consent Decisions Beyond the Individual. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems* (CHI '19). ACM, New York, NY, USA, Paper 515, 13 pages. DOI: https://doi.org/10.1145/3290605.3300745

38. Tallyn, Pschetz, Gianni, Speed, Elsden: Exploring Machine Autonomy and Provenance Data in Coffee Consumption: A Field Study of Bitbarista. Proc. ACM Hum.-Comput. Interact. 2, CSCW, Article 170 (November 2018) https://doi.org/10.1145/3274439

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3. Speed, C. 2015 *Designing within an Internet of Things*, in proceedings of The 1st International Symposium on Art & Technology held by NTUE and ATATW, Taipei, Taiwan. 10th- 11th January 2015. ISBN NO.978-986-91502-0-0

4. Speed, C. 2014 *My sculpture says that it deserves a better mark*. Code Acts in Education: learning through code/learning to code. ESRC seminar series 2014-15. Seminar 3: Code Acts in Community & Lifelong Learning. University of Stirling, 11 Sep 2014.

5. Speed, C. 2014 Imaging the Event. Paper presentation at 'Cloud and Molecular aesthetics' The Third International Conference on Transdisciplinary Imaging at the Intersections of Art, Science and Culture, Pera Museum, Istanbul. June 26th-28th.

6. Speed, C. 2012 *Walking Through Time: Use of Locative Media to Explore Historical Maps,* in Mapping Cultures, Palgrave Books, London. pp. 160-180.

7. Speed, C. 2012 *Mobile Ouija Boards*. In On Heritage. Edited by Giaccardi, E. London: Routledge. pp.179-196

8. Speed, C. 2011 *Kissing and making up: time, space and locative media*, Digital Creativity, 22:4, Taylor & Francis / Routlege. pp. 235-246. Refereed.

9. Speed, C. 2011 *A rolling stone gathers no moss and other consumer conspiracies*. In Future Everything. Edited by Hemment, D. Published by Future Everything. pp. 24.

10. Speed, C. 2011 *An Internet of Things That Do Not Exist*, Interactions, ACM. New York, NY May and June Volume XVIII.3 pp.18-21. Refereed.

11. Speed, C. 2010 *An Internet of Old Things,* Digital Creativity, Vol 21, No.4 Taylor & Francis / Routlege. pp. 235–246. Refereed. https://doi.org/10.1080/14626268.2010.555915

12. Speed, C. 2010 'Developing a Sense of Place with Locative Media: An "Underview Effect' *Leonardo*, MIT Press, April 2010, Vol. 43, No. 2, pp. 169-174. Refereed.

13. Speed, C. 2009 *Body becoming architecture: A continuum for the body's interface with architecture through digital networks* published in: Mapping the Body: the Bodily Factor in Social Networking, edited by Bianca Maria Pirani & Thomas S. Smith. University Press of America ISBN 978-0-7618-4997-1 pp. 251-259.

14. Speed, C. 2009 *Designing for Invisible Landscapes*, Digital Design in Landscape Architecture May 21-23 2009, Awarded best paper in Digital Landscape Educational Category, pp. 203-208. Refereed.

15. Speed, C. 2008 *Getting Over the Fence*, ISEA 2008 - 14th International Symposium on Electronic Art, Proceedings. July. 2008. ISBN 978-981-08-0768-9. CD-Rom. Refereed.

16. Speed, C. 2007 *A Social Dimension to Digital Architectural Practice*. 3rd International Conference of the Arab Society for Computer Aided Architectural Design, Alexandria Egypt November 2007. pp. 291-304. Refereed.

17. Speed, C. 2006 *Folksonomies for Space* in Consciousness Reframed, 8th International Research Conference. convened by the Planetary Collegium, University of Plymouth. Plymouth July 2006. Refereed.

18. Speed, C. 2005 *Tele-Social Architecture* in Altered States: transformations of perception, place, and performance, Conference convened by the Planetary Collegium, University of Plymouth. Plymouth August 2005. ISBN 1-84102-147-4. CD-Rom.

19. Speed, C 2004, *Making the Simple, Complex*, in Qi and Complexity: proceedings of Consciousness Reframed 2004: The 6th International Research Conference, Beijing, November 2004. CD-Rom. Refereed.

20. Speed, C 2003 *iTecture* in Fourth Door Review, Number 4. Published by Fourth Door Research. ISSN 0 415 26313 1 pp, 33-35.

21. Speed C. 2002 *Dismantling Teleological Navigation*, The Art of Programming. p.56-64. Edited by F. Elvers, L. vd Velden, P. vd Wenden. Published Paradiso/Sonic Acts Press, Amsterdam. ISBN 90-6617-279-7 p.56-64.

22. Speed, C. 2002, *Entropic Navigation* 4th International. CAiiA-STAR Research Conference. Consciousness Reframed 2002. Curtin University of Technology, Perth, Australia. Part of the BEAP [2002 Biennale of Electronic Arts Perth] Published on CD-Rom, ISBN 1-74067-272-0. Refereed

23. Speed, C. 2001 *Looking at the Looking Clock* Problems of Participation and Connection. pp. 167-173. Published by the University of Amsterdam. ISBN 1 86342 908 5. Refereed.

24. Speed, C. 2001 *The Production Room* in Flux Magazine, Oct/Nov Issue. Commissioned work for Variable D Gallery, supported by Arts Council.

25. Speed C. 2001 *Tele-Spatial Research*, Artists Statement, Leonardo. Vol. 34, No. 3. p.198. Published by MIT Press. ISSN 0024-094X. Refereed

26. Speed, C. 2000 *Exploring Temporal Navigation* in Emergent Futures, Art Interactivity and New Media, pp. 67-74. Published by Institucio Alfons al Magnanim. ISBN 84-7822-326-6 Refereed.

27. Speed C. 2000 *Temporal Navigation* Habitus 2000; A sense of place Perth, Western Australia 5-9 September 2000. School of Architecture, Construction and Planning, Curtin University of Technology. ISBN 1 86342 908 5

28. Speed C. 1999 *Raindance:Making Visible the Community of the Internet*. I3 Annual Conference Proceedings - Community of the Future, Siena, Italy 20-22 October 1999. Published by the Human Communication Research Centre, The University of Edinburgh. P.57-60 ISBN 1-902242-01-6. Refereed

Books & Journals edited

1. Co-Editor for Data-driven Innovation in the Creative Industries: Creative Data Catalysts, Eds Terras, M., Speed, C., Osborne, N. & Jones, V. London: Routledge, (2023).

2. Co-Editor for the Ubiquity: Journal of Pervasive Media 2012-2020 http://www.ubiquityjournal.net https://www.intellectbooks.co.uk/journals/view-Journal,id=211/

3. Co-Editor of Architecture and Field/Work, Eds Ewing, S., McGowan, JM. , Bernie, V. & Speed, C. London: Routledge. (2009) Pages: 208

4. Leder, K., Macdonald, J. & Speed, C 2010 Tagging Technology: A public workshop. Edinburgh College of Art: ISBN 978-1-904443-43-8 Pages: 37

5. Speed, C 2005, 'IBeam - The Dyslexics Edition', University of Plymouth, CD-Rom ISBN 1-84102-141-5

6. Speed, C 2004, 'IBeam - The Dancers Edition', University of Plymouth, CD-Rom ISBN 1-84102-126-1 Featuring fonts by Candoco, Lone Twin, Attik, Tim Etchells (Forced Entertainment), Rosemary Lee, Blast Theory, Siobhan Davies

7. Speed, C 2003, 'IBeam - The Architects Edition', University of Plymouth, CD-Rom ISBN 1-84102-115-6 Featuring fonts by Will Alsop, Wayne Hemingway, Form Design Group, Future Systems, dRMM, Feilden Clegg Bradley, Stephen Perrella, Neal Huston

8. Speed, C. & Grinsted G, (Eds) 'V01D Digital Architecture', University of Plymouth. ISBN1-84102-087-7 Featuring texts by: Iain Borden, Peter Anders, Stephen Perrella. Pages: 71

Research supervision experience, including the number of research students supervised (current and total and whether as principal or second supervisor) and of completed theses over the past five years or so

Current PhD students: 6 (1st Supervisor for 4, 2nd Supervisor for 2)

1st Supervisor:

Emma Gieben-Gamal: Design, identity and the material culture of homes in transition in later life

Harvey Dingwall: Improving design through drawing

Hector M. Fried: Design and Empathy; How Could Empathy Improve the Design Process?

John Morrison: The medium and the method: Participatory engagement in a digital age

2nd Supervisor:

Vikki Jones: Big data versus creativity: the impact of digital media and metrics on artists and cultural organisations

Youngsil Lee: Design sociotechnical systems with human values: Methods for Co-design

I have led 21 PhD students and one MPhil student to successful completion:

Dr. Elisa Giaccardi: *Principles Of Metadesign*, 2003

Dr. Olubusayo Tolulope Onabolu: *Architecture and the Creation of Worlds*, 2010

Dr. Uli Speirling: *Implicit Creation: Non-Programmer Conceptual Models for Authoring in Interactive Digital Storytelling* 2012, University of Plymouth.

Dr. Elif Ayiter: Creativity *Enablement in a Metaverse* 2012, University of Plymouth.

MPhil Klas Hyllen: THE UNCONSCIOUS LIFE OF OLD TOWN A Psychoanalytic Study Of Edinburgh's Historic City 2012

Dr. Karlyn Sutherland: *Attachment to Place: Towards a Design Methodology* 2013

Dr. Larissa Pschetz: *Temporal Design: design for a multi-temporal world* 2015

Dr. Rocio von Jungenfeld: *Creative Mediated Places: a practice-based investigation into the creative possibilities of media in public space.* 2015

Dr. Ingi Helgason: *Complex Pleasures: Interactions in new-media art as a resource for the design of the user-experience (Registered at Napier University).* 2015

Dr. Dave Wood: *Visual Communication and the Aesthetics of Use: A Visual Phenomenological Methodology.* 2015

Dr. Gianni Corino: *Extending Social Networks through Objects, Things and Props (Registered at the University of Plymouth.* 2016

Dr. Montasir Masoud Abdullah Alabdulla: *Towards more pedestrian-friendly urban streets - Changing human travel behaviour in hot-humid car-dependent society, with reference to Dammam City, Saudi Arabia; A socio-cultural approach.* 2017

Dr. Karl Monsen: *Better medical apps for healthcare practitioners through interdisciplinary collaboration: lesson from transfusion medicine.* 2017

Dr. Duncan Shingleton: *Data Led Design: A practice research approach to understand the role of objects in the Internet of Things.* 2018

Dr. Fabrizio Gesuelli: *Learning from Protest Un-mediating Architecture.* 2018

Dr. Diego Zamora: *Crafting In The Digital Age; 3d Printing And Contemporary Approaches To Craft.* 2018

Dr. Matteo Ronzani: *Designing for Complexity: Data Visualizations in Megaproject Management. 2018*

Dr. Lore Said: *Humanizing Domestic Environment Using Collapsibility Concept as a Design Strategy.* 2018

Dr. Ian Lambert: *Narratives of Making: Modes of Articulating Tacit Knowledge.* 2019

Dr Hadi Mehrpouya: *Disrupting surveillance: critical software design-led practice to obfuscate and reveal surveillance economies and knowledge monopolies.* 2019

Dr Lucas Godfrey: *Automated Map Content Selection for Multi-Modal Travel (funded by the EPSRC / Ordnance Survey)*. 2020

Dr Sarah Bennett: Transmuting Values in Machine Learning: A Qualitative Investigation of the Motivations, Contexts and Ethics of Machine Learning Practitioners. 2022

Appointments as external examiner for the award of doctoral degrees:

Seventeen PhD External Examinations:

University College London, Feb 2013, PhD: Fabian Neuhas: Temporal aspects of the city, focusing on routine and repetition

University of Liverpool, Jan 2013, PhD: Michael Otchie. Breaking the Urban Code: Exploring the relationship between human mobility and the built environment

University of Newcastle, Nov 2014, PhD: Thomas Schofield. Materiality and Making in Experiential Ecologies.

University of Lancaster, Jan 2016. PhD: Franco Curmi. Remote Synchronous Crowd Support in Challenging Sports Events

University of West England, March 2016. PhD: Jo Morrison. Designing Physical-Digital Artefacts for the Public Realm.

Royal College of Art, June 2016. PhD: Delfina Fantini von Ditmar. IdIoT: Second-order cybernetics in the 'smart' home.

University of Lancaster, July 2016. PhD: Lara Salinas. The Production of Digital Public Spaces.

University for the Creative Arts, January 2017: Krisanee Meechao. Digital technologies in architecture; from a presentation tool to an interactive design and communication system.

Newcastle University, February 2017: Luis Hernan. Wireless spectres — Space and the re-enchantment of invisible technologies.

Ulster University, March 2017: Jacqueline Wylie. A new canvas? How are visual artists exploting the emergent potential of social media; and how do the hybrid methodologies required to work in this medium impact on material (post digital/post internet) practice?

KTH, Copenhagen, October 2017: Kristina Andersen. Making Magic Machines.

Northumbria University, December 2018: Paul Dolan. In Silico: A practice-based exploration of computer simulations in art.

University College of London, February 2019: Ruairi Glynn. The Irresistible Animacy of Lively Artefacts**.**

University of York, September 2019: Jandy Luik. Creative Hubs as Assemblages: Understanding the Reciprocal Forms, Formalised Function and Territorialisation of Creative Hubs.

Northumbria University, February 2020: Cally Gatehouse. The Speculative Gaze: Design-Research as Diffraction.

RCA, March 2021: Mike Kann. Designing the Domestic Internet of Things using a Practice-Orientated Perspective.

University of Manchester, March 2022: Frances Liddell. The Crypto-Museum: Investigating the impact of blockchain and NFTs on digital ownership, authority, and authenticity in museums

Lancaster University, March 2022: Boyeun Lee. Understanding New Product Development and Value Creation for the Internet of Things

University of Greenwich, September 2022: Ian Pottinger. A Theory of Posthuman Architecture: Architectural Dis/Ability, Post/Humanism & Inclusive-Dynamic Environments

Internal examiner at the University of Edinburgh:

January 2014, Cristiano Agostino: The Contemporary Digital Museum in Theory and Practice

May 2014, Denitsa Petrova: Public Art 2.0: Developing Shared Platforms for Creativity in Public Spaces

December 2014, Asrul Abdul Razak: Digitally Fabricated: Developing Instructional Design Learning and Teaching in Creative Digital Design and Craft Fabrication

March 2015, Bahareh Jalalzadeh Moghadam Shari: Playful engagement in product design: Developing a theoretical framework for ludio-aesthetic interactions in kitchen appliances.

March 2017, Tim Fawnes: Blended&Memory: Distributed Remembering and Forgetting through Digital Photography.

April 2020, Pablo Nicolas Escarate Sanchez: Exploring value creation processes in publicly funded services: Insights from inclusive arts programmes in Scotland.

September 2020, Lisa Naas: Association in Creative Idea Generation: A Black Box Dissertation Staged in Lyric Inquiry and Glass Concepts

Teaching experience

Arriving at the University of Edinburgh / ECA I had already led the BSc / BA (Hons) Digital Art and Technology at the University of Plymouth through a revalidation, QAA review and name change (formerly BSC (Hons) MediaLab Arts. Appointed to develop a pedagogical framework for teaching digital architecture at ESALA in 2008, I set about shaping the pathways through the programme Years 1 to 4 of the 4 year MA(Hons) in Architecture and the 2 year Post Graduate Master in Architecture. Core to the method is the trialectic of theory, skills and workshop. *Theory*: a spine of digital culture lectures now runs through the undergraduate programme exposing all students to key themes, texts and practices; *Skills*: a rigorous series of taught classes that introduce software that follow the principles of Pixel, Vector and Time Supported through workshops (the synthesis of theory and practice) is manifest through 48 hour workshops in the second semester for the 1st and 2nd years: Digital Skin (video) and Drawing with Satellites (GPS). The Disruptive Technologies course (2011-2013) was a defining example of new technology and materials culture and synthesized the making, thinking and developing of new digital architectures.

From 2012 with the development of the MA/MFA/MSc/Advanced MSc Design Informatics programmes and the establishing of the Centre for Design Informatics, led the development of the programmes design and delivery. A programme that leads the world in Designing with Data, growing from a cohort of 9 (2013) to 47 (2019) across one year and two year modes.

2015 to 17 I took the rather dull BA (Hons) Product Design degree and redeveloped the courses and programme toward a contemporary design programme that embraces the critical making cultures and new technologies. New hires across interaction design and social computing have now transformed the degree into one of the most forward thinking, but socially and materially aware programmes in the UK.

2020 into 2022 working with Stephen Osborne (UEBS) to develop the MSc Service Management and Design programmes for Edinburgh Futures Institute.

Responsibilities

2022 co-developed the CodeBase Bridge: Playbooks for Building Startups course with local tech incubator CodeBase, 10 Credit, Level 11.

2019 to present designed and deliver the Data Value Chains to Constellations course for the Edinburgh Futures Institute, 10 Credit, Level 11.

2015 to 2017 - Programme Director for BA(Hons) Product Design.

2014 to 2017 - Programme Director for MA/MFA Design Informatics,

2014 to 2018 – Course leader for Histories and Futures of Technology, Design Informatics Project.

2012 – Author of four courses for the MA/MFA Design Informatics programme to begin 2013.

2010 to 2012 - Course co-organiser for MArch Disruptive Technology (part of ARCH11089 and ARCH11090, 80 credits in total).

2010 to 2013 Organiser and teacher for the Drawing with Satellites workshop for 2nd year ESALA

2009 Organiser and teacher for the Digital Skin video workshop for 1st year ESALA (now an Innovation week course)

2009 Course organiser and author of Digital Space, 2nd year Elective (ARJA08001 Pan-University 20 credits).

2009 Developed the Digital skills and lecture programme within the Art & Design course, 1st year Architecture and more recently Architecture & Landscape Architecture (ARCH07001 20 credits).

2008 Course organiser for Computer Aided Design, 2nd year Core, Landscape Architecture (ARCH08014 20 credits).

2008 Course organiser for Integrated Digital Media, 2nd year Core, Landscape Architecture (ARCH08014 20 credits).

Contribute annual lectures across ECA to MA Interdisciplinary Creative Practice, MA Digital for Digital Media, the Design School Postgraduate Research Methods course, the Postgraduate Internet & Society course and third year BA Design Context.

Administrative experience, including experience as Head of Department/School

Director of the Edinburgh Futures Institute (2022-)

Director of Innovation at the Edinburgh Futures Institute (2020 - 2022)

Co-Director to The Institute for Design Informatics, University of Edinburgh (2013 – present).

Director of Creative at the Edinburgh Futures Institute (2018 - 2020)

Director of Research for the School of Design (2015-2018)

Programme director for the MA/MFA Design Informatics programme (2013 – 2017).

Co-Chair for 2 International conferences: <u>Research Through Design 2017</u>, Edinburgh. <u>Transimage 2018</u>, Edinburgh.

Invited Assessor for External Assessment exercise at Northumbria University, for for UoA 32 Art and Design, February 2020.

Led the call, coordination, and chaired the Workshops at the Digital Economy All Hands Conference 2011 in Newcastle.

Appointed as first ECA Senior Director of Studies for Architecture / ESALA prior to and following merger (2009-11)

Convened the ESALA Outreach committee (2011).

Lead the delivery of the Design Informatics Research talks (2012 – ongoing)

Developed DigitalSpaces online teaching resource that support Architecture students with tutorials and skills advice.

Membership of Societies

Board member for the Fruitmarket Gallery, (2017-present)

Member of the Arts and Humanities Research Council Peer Review College, responsible for Academic / International / Knowledge Transfer, have reviewed ten applications and have been a panel member for Research in the Wild and Collaborative Doctoral Awards. (2009 – 2017)

Review for the ESPRC, TSB (2010 – present)

Board member and treasurer of the International Sociological Association's Research Committee on 'The Body in the Social Sciences' (2009 – 2013)

Member of the Advisory Committee for the International MediaCity conference (Buffalo and Weimar) (2012 – present)

Member of the advisory board for the Institute of Digital Art & Technology (i-DAT), a HEFCE & Arts Council England funded 'Centre of Expertise' facilitating regional, national and international collaborations and cultural projects (2011 – present)

Co-Chair of the Research through Design Conference 2017.

Member of the ASCUS Lab Advisory Board, December 2016 – present.

Membership of committees

Member of the National Digital Ethics Expert Group for Scotland, Scottish Government (2020 – present)

Member of the Digital Economy Theme Programme Advisory Board, 2015 – 2019.

Chair of the EPSRC Distributed Ledger Technology panel, through 2016-17.

Chair of the Edinburgh Panel for the EPSRC Design the Future, 5th Feb 2015.

External Examiner for the BA Interactive Media Design programme, Northumbria University (2014-2017).

External Examiner for the MA Information Experience Design (IED) Programme. Royal College of Art (2017-2020).

External Examiner for BSc Multimedia Technology & Design, BSc Broadcast Media (Design Technology) at the School of Engineering & Design - Electronic & Computer Engineering Courses, Brunel University (2009-2014)

Member of the external validation panel for the new Undergraduate Scheme at the Cardiff School of Art & Design (February 2012).

Member of the Foundation Degree Multimedia Validation for the University of Wales , Newport. April 2005.

Awards:

Fellow of the Royal Society of Art, (2023 – present)

Chancellor's Award for Research, University of Edinburgh, 2020

Fellow of the Royal Society of Edinburgh (2020 – present)

I received a University of Edinburgh Chancellors Medal in 2011 for Community Engagement

The TOTeM Research project for which I was PI won the be2award for best Internet of Things platform in 2011

Awarded The Royal Society of Edinburgh (RSE) Innovator's Prize 2013

Products / Services / Artefacts*
Products and services co-developed with designers, developers and researchers connected to the research projects.

*some of these services may no longer be available

Random Lift Button (2003) Random elevator buttons are installed in the Portland Square building at the University of Plymouth and take people to random floors.
https://youtu.be/lcqJEnMMHOg
http://chrisspeed.net/?p=584

Walking Through Time (2009) is an app that overlays historical maps of Edinburgh on to Apple Maps to offer a live, historical insight into the geographies of the past.
http://itunes.apple.com/gb/app/walking-through-time-edinburgh/id381528712?mt=8
http://www.walkingthroughtime.co.uk
http://chrisspeed.net/?p=293

Tales of Things (2010) is an app that allows you to associate text, audio and video to a physical object through the use of a QR code.
http://talesofthings.com
https://itunes.apple.com/ke/app/tales-of-things/id366964873?mt=8
http://chrisspeed.net/?p=261

Oxfam Shelflife (2012) is a further version of the Tales of Things app developed for Oxfam UK for a limited trial in the Manchester area
http://chrisspeed.net/?p=773

Comob Net (2010) Comob Net allows a group of people to see each other's geographical locations in 'real-time' and connect them up with lines.
https://itunes.apple.com/gb/app/comob-net/id326303438?mt=8
http://www.comob.org.uk

Take Me I'm Yours (2012) Take Me I'm Yours is an iPhone app that allows storytellers to write narratives through traditional barcodes that are associated with everyday consumer items.
https://itunes.apple.com/gb/app/take-me-im-yours/id531525184?mt=8
http://chrisspeed.net/?p=929

CoGet (2014) The CoGet software uses algorithms to navigate physical objects to where they want to go, and asks the public to move them on their behalf.
https://itunes.apple.com/gb/app/coget/id843552747?mt=8
http://chrisspeed.net/?p=1465

Mr Seels (2014) The Mr Seel's iPhone App lets people within the geofence of Liverpool discover how we used to grow, make and eat food by scanning food products from the present day.
https://itunes.apple.com/gb/app/mr-seels-garden/id592339365
http://chrisspeed.net/?p=1068
http://www.mrseelsgarden.org

Treasure Trapper (2014) Treasure Trapper is a game that allows you to explore Edinburgh Museums & Galleries (EM&G) collection of amazing objects.
https://itunes.apple.com/gb/app/treasuretrapper/id898429541?mt=8
http://www.sixthsensetransport.com/mobile-apps-and-platforms/treasure-trapper/
Underview (2015) The Underview app lets you view a map of the world looking through the planet.
https://itunes.apple.com/gb/app/underview/id1021731498?mt=8

Internet of Things Toilet Roll Holder (2015) The IoT toilet toll holder is powered by an electric imp to provide a live feed from the use of toilet paper in the Speed house.
http://dev.modusdeus.com/toilet/vis/
http://chrisspeed.net/?p=1529

Ghost Cinema (2015) An iPhone app that allows visitors to Battersea, London to explore the hidden cinematic geographies of film houses and movie sets.https://itunes.apple.com/gb/app/ghostcinema/id705932058?mt=8
http://chrisspeed.net/?p=1663

Art Casting (2016) Artcasting is a App that invites visitors to exhibitions to choose an artwork and digitally 'cast' it on a trajectory to a new location.
https://itunes.apple.com/gb/app/artcasting-at-edinburgh-art/id1140786449?mt=8
http://chrisspeed.net/?p=1835

KASH Cups (2016) Are a collection of coffee cups augmented with NFCs that gives them simple bank accounts that support the production of new social transactions.
https://youtu.be/6eSVpGiIZfo
http://chrisspeed.net/?p=1874

Block Exchange (2016) is a fast-paced workshop activity that opens minds to the future possibilities of value exchange by using Lego to understand Blockchain.
http://blockexchange.designinformatics.org
http://chrisspeed.net/?p=1719

GeoCoin (2017) An Ethereum based software that allows people to distribute test ether across space to better understand the implications of smart contracts.
https://geocoin.site
https://www.youtube.com/watch?v=o2SpJBNtT8k
http://chrisspeed.net/?p=1759

BitBarista (2017) A Bitcoin coffee machine designed to explore perceptions of data processes in the Internet of Things.
https://www.youtube.com/watch?v=TOrTMNkD3Ng&feature=youtu.be
https://www.petrashub.org/bitbarista-goes-out-to-work/

GigBliss (2018) Three hairdryers developed to explore human to machine agency within distributed energy networks.
https://blogs.ec.europa.eu/eupolicylab/blockchain4eu/gigbliss/
https://youtu.be/Ff7GvL8sJDw

Oxchain / **Smart Donations** (2019) Smart contract donation app for Oxchain Australia.
https://play.google.com/store/apps/details?id=uk.ac.lancs.oxchain&hl=en_GB

Night Walk for Edinburgh (2020) Janet Cardiff and George Bures Miller's Night Walk for Edinburgh commissioned by The Fruitmarket Gallery, Edinburgh
https://apps.apple.com/app/id1528795287
https://play.google.com/store/apps/details?id=com.creativeinformatics.FruitmarketNightWalkApp

If Then Give (2022) Full release of the smart contract donation app for Oxchain Australia: https://apps.apple.com/gb/app/if-then-give/id1593427868

Invitations to speak at symposia and congresses & Invited Talks:

Speed, C. (2022) Can Money Save the World? Beyond Architecture Day 02. Connected Cities, SDGs and Design Research in a connected world: Evolution and Methods of Architecture and Urban Design in Education and Practice. Universidad del País Vasco. 9th November.

Speed, C. (2022) Invited talk: Common Purpose - digital transformation session, virtual round table, University of Western Sydney. 24th October.

Speed, C. 6 Oct 2022 Playing within Systems for Change (The Art Panel) with Ioannis (John) Bardakos, Tegan Bristow, and Claudia Westermann. Relating Systems Thinking and Design Symposium: Systemic Design Association
https://rsdsymposium.org/arts-panel/#pdf-rsdx_art-panel_playing-within-systems-for-change-3/1/

Speed, C. (2022) Money as material for designing with data. Invited talks at Australian Universities Summer 2022: RMIT Design School; University of Monash Action Lab; UNSW School of Computing; University of Adelaide, School of Art & Design.

Speed, C. (2022) From Countryside to Country-side. Keynote: Cultures, Communities and Design: A conference connecting planning, landscapes, architecture and people, Calgary, 28th June.

Speed, C. (2022) Blockchain by Design. Instituto Superior Técnico, Lisbon. 13th April.

Speed, C. (2022) NFTs by Design. LSESU Visual Arts x LSE GDSC: NFTs The New World in Art and Tech. London School of Economics and Political Science. 10th March.

Speed, C. (2022) A Tech Eco System Perspective. Westminster Media Forum policy conference: Next steps for regional media and creative industries,18th January

Speed, C. (2022) CBDC by Design. Invited speaker for academic roundtable on Central Bank Digital Currency with the Bank of England 26th January.

Speed, C. (2022) Designing from/with/ by data, Invited speaker for Research Libraries UK (RLUK)Digital Shift Forum, 2nd February.

Speed, C. (2022) Data + Value for Art & Design. APDIG + CHEAD Roundtable: Realising Art and Design Research in Policy Making Decisions. Arts and Design Expertise and Evidence Base: how can we use it? 29th November.

Speed, C. (2021) invited speaker / panellist: 'Innovating with Data in Scotland: multi-sector and multi-disciplinary approaches to support social equality, wellbeing', collaborative on-line event, University of Glasgow, 27th October.

Speed, C. (2021) panellist / Chair: 'Structuring Sustainable Success: Place-Based Investment and Infrastructure', Beyond 2021 conference, Belfast 20th October.

Speed, C. (2021) panellist: 'Mental Health for all – a collective responsibility', webcast dedicated to World Mental Health Day 2021, collaboration between the Chartered Banker Institute and The Chartered Institute for Securities and Investment. 12th October.

Speed, C. (2021) invited speaker / panellist: Academic collaboration to Future Proof the creative industries, Masterclass 11:00-12:15, 27 September 2021, with Pat Kane, Sara Pepper, Chris Speed & Caroline Parkinson.

Speed, C. (2021) Chair: Round Table with Kaspar Hartmann, Founding Partner, KKA Partners. 13th October. Webcast, University of Edinburgh.

Speed, C. (2021) invited guest: Edinburgh Festivals lunch with DCMS Secretary of State Oliver Dowden MP, Tues 17 August.

Speed, C. (2021) invited speaker: Westminster Higher Education Forum policy conference: Establishing the Advanced Research & Invention Agency (ARIA) and its key future priorities. 20th July.

Speed, C. (2021) Design within Data. Keynote for The 28th ISTE International Conference on Transdisciplinary Engineering (TE2021). 5 - 9 July 2021Virtual Conference hosted by the University of Bath, England. https://www.teconference.net/

Speed, C. (2021) Invited talk: Developing an institutional culture that supports blue skies research -cutting excess administration, embracing the possibility of failure, deepening collaborative practices, and harnessing open science. Westminster Higher Education Forum policy conference: Establishing the Advanced Research & Invention Agency (ARIA) and its key future priorities, Tuesday, 20thJuly 2021. https://www.westminsterforumprojects.co.uk/agenda/ARIA-21-agenda.pdf

Speed, C. (2021) Invited talk: Co-Creation at the Strategic Leadership in Research Programme, University of Edinburgh. 17th June, 2021

Speed, C. (2021) Integration at the Una Europa Future UniLab Summary Meeting, 28th May 2021.

Speed, C. (2021) Invited talk / workshop: Geocoin: An Interactive Workshop, Hyper Island, Manchester. 19th May 2021.

Speed, C. (2021) Invited talk and panelist for the final DLT4EU event, Brussels / online. https://www.dlt4.eu/final-event 6th May 2021

Speed, C. (2021) Invited talk at Postdocs to Innovators (p2i) consortium (P2i) online session Design Thinking, 10th March 2021.

Speed, C. (2021) Chair for Audience Research: Landscape of a Pandemic, UK House Stage, Audience of the Future Live (UKRI), SXSW 2021. March 9th 2021. https://audienceofthefuture.live/about/

Speed, C. (2021) Invited talk: The landscape of Data skills in Scotland, 5G, IoT, and the digital twin and educational delivery models post pandemic, for CodeClan AGM 24th Feb 2021.

Speed, C. (2021) Invited panelist. House of Commons' Scottish Affairs Committee, Royal Society of Edinburgh. 2nd Feb 2021.

Speed, C. (2020) Design from/with/by Data: Revisiting the ablative framework for design computation. Keynote for Design Computation conference, London / Virtual: https://www.designcomputation.org/dcio-2020-programme

Speed, C., Loo, S., Parry, W., Phillips, M., Thornton, P., Dwyer, A., Aga, B. & Manton, C. (2020) Cutting Together-Apart: Creative and critical practices as agential cuts within digital economies, Panel. At The Sixth International Conference on Transdisciplinary Imaging at the Intersections between Art, Science and Culture: DARK EDEN, 6 – 8 November 2020, Sydney / virtual.

Speed, C. (2020) Invited talk, Advances in Blockchain Technology Scotland 2020, Bayes Centre 30,09.20 Webinar
https://blogs.ed.ac.uk/blockchain/2020/10/04/advances-in-blockchain-technology-scotland-2020/

Speed, C. (2020) Invited talk: IoFT monthly lunchtime talks, University of Lincoln, 20/11/20

Speed, C. (2020) Invited talk & panel: Demystifying Blockchain Technology with Catherine Mulligan, Allen Clement, Instituto Superior Técnico, Lisbon / M-ITI
https://tecnico.ulisboa.pt/en/events/demystifying-blockchain-technology/

Speed, C. (2020) Designing from/with/ by data: Keep Cutting, invited talk Institute of Digital Art & Technology, University of Plymouth, 11th November, 2020

Speed, C. (2020) Invited Talk: Co-designing with Things, Städelschule, Frankfurt (Zoom), 2/07/2020

Speed, C. (2020) Invited Talk: British Computing Society, Human Computer Interaction Doctoral School (Zoom), 6/07/2020

Speed, C (2020), Presented Creative Informatics to the UK Creative Industries Advisory Board, 20th January, Nesta / UKRI 58 Victoria Embankment, London

Speed, C. Dixon, B, Morgan, E, (2020) Invited talk: Future of Personal Data: Designing a Qualified Self   16/01/2020   Manchester Futurists, Autotrader building - 1 Tony Wilson Place Manchester M15 4FN,

Speed, C. (2020) Invited Talk: Rethinking Capitalism: The Fourth Industrial Revolution. 23/01/2020, Business School Edinburgh, Talk

Speed, C, (2020) Invited Talk: Talking Heads: Shifting Gears, 31/03/2020, Creative Edinburgh.

Speed, C. (2019) Opening introduction to the Beyond Conference: AI & Creativity, part of the ISCF / AHRC Creative Economy Programme, 20-21 November 2019 - Assembly Rooms, Edinburgh, UK

Speed, C. (2019) Invited debate: "Marketers must adopt an ethical data framework to engender trust with their customers". The Debating Group, House of Commons. Sponsored debate by DMA. 15th July. House of Commons, Westminster.
http://www.debatinggroup.co.uk/

Speed, C. (2019) Keynote address: Co-Creating Value within a Digital Heritage Economy. Heritage Dot Conference, 3-4 June 2019. University of Lincoln, Lincoln.
http://heritagedot.org/contributors/

Speed, C. (2019) Invited talk: 'Apocalyptic Design: Exploring More Human Agency in Distributed Networks.' HCID Open Day "Design for Good". 18th June. Centre for Human Computer Interaction Design at City, University of London

Speed, C. (2019) Invited Talk: Creative industries: Scottish perspectives and UK policy. 23rd September, Lighthouse, Glasgow. https://www.create.ac.uk/wp-

content/uploads/2019/09/Creative-Industries-Policy-Workshop-Programme-23.09.19.pdf?x10213

Speed, C. (2019) Invited Talk: New Economic Imaginaries, IFRRO World Congress, 5th Nov, Assembly Rooms, Edinburgh https://static1.squarespace.com/static/5c38813785ede114a7ca140d/t/5da04f090e075b4c63a5b4e4/1570787082170/IFRRO+International+Conference+29+Aug+2019+FINAL+PDF.pdf

Speed, C. (2019) Invited Talk: Co-Creating Value in the Digital Economy, 6th CENSIS Tech Summit & Conference 7th Nov 2019, Royal Concert Hall, Glasgow https://censis.org.uk/censis_tech_summit/6th-technology-summit/

Speed, C. (2019) Invited Talk: Blockchain by Human Centred Design, The Future of Distributed Ledger Technology meeting, 6th Nov. Newton gateway to Mathematics, University of Cambridge, Cambridge.

Speed, C. (2019) Invited Talk: Co-Designing with Things. ScotSoft conference 3rd Oct. EICC, Edinburgh, https://scotsoft.scot/speakers/chris-speed/

Speed, C. (2019) Invited Talk: Audit Scotland PABV TEAM DEVELOPMENT DAY 2019, City of Edinburgh Methodist Church

Speed, C. / Osborne, N. Invited seminar for data scientists and senior staff from Scottish Funding Council, 13/06/2019, Edinburgh.

Speed, C. (2019) Invited Talk: New Economic Imaginaries, Beyond Money Breakfast, Venture Three, 29th Oct, 11 Cavalry Square London. https://www.eventbrite.co.uk/e/beyond-money-tickets-75833125921

Speed, C. (2019) Invited panel: BIMA Roundtable Data & Creativity, 28th Oct, Inspace, Edinburgh. https://www.eventbrite.co.uk/e/bima-scotland-tech-director-innovators-roundtable-between-creepy-cool-tickets-71527389347?fbclid=IwAR2N4v8mwhBPf4s9B3g1mVZ3Cu9o065q3DXd1G2y9SpEzg9NxX4-_vYfc10

Speed, C. (2019) Invited talk: I and T people and what's in it for them. LERU Doctoral Summer School, 16th July. University of Edinburgh. https://www.leru.org/calendar/leru-summer-school-2019

Speed, C. (2019) Invited talk on panel: Never Alone: Living with the Internet of Things. 5th June. Cheltenham Science Festival 4 – 9 June 2019. Related press:

Speed, C. (2019) Invited talk: Co-Designing with Things. York Cross-Disciplinary Centre for Systems Analysis. 21st June. University of York. https://www.york.ac.uk/yccsa/activities/news-events/seminarseries/

Speed, C., Turner, M., Macdonald, J., Rankin, J. (2019) Designing things with spending power (Inverness and live online), Highlands and Islands Enterprise, 5th January 2019

Speed, C. (2019) Keynote Speaker. Designing New Socio-Economic Imaginaries. 24th CAADRIA Conference - Volume 1, Victoria University of Wellington, Wellington, New Zealand, 15-18 April 2019 https://caadria2019.nz/keynote-speakers

Speed, C. (2019) Contribution to panel on creative skills. Places of Creative Production: Future Skills, Dundee. 1st Feb 2019. https://www.eventbrite.co.uk/e/places-of-creative-production-future-skills-tickets-53536389783#

Speed, C. (2019) Designing Things with Spending Power. Invited talk for Fast Forward, FinTech industry event, Edinburgh, 27th November

Speed, C. (2019) Designing Things with Spending Power. Invited talk for Morningside Justice and Peace group, 23rd January 2019

Speed, C. (2019) Designing Things with Spending Power. Invited talk for Understanding Blockchain for Business, Belfast, 17th January 2019

Speed, C. (2019) Invited talk at EUROCITIES 2018 conference study tour, Edinburgh, 30th November

Speed, C. (2019) Participation in Scottish Government Workshop on Tech Trend Scenarios, 3rd December, 2018

Speed, C. (2019) When Things Have Wallets. Invited talk. 20th February 2019. Invited talk for the Thing Centred Design Course at TUDelft supported by Mozilla.

Speed, C. (2019) World-leading Research: A Celebration of Impact, CAHSS, Summerhall, 28th March 2019

Speed, C. (2018) How speculative design and new design methods can plan for security and adoption requirements, panel contribution. Secure by Design conference, IoTUK, Southbank Centre, London. Sept 12 2018.

Speed, C. (2018) Designing things with Spending Power, Invited talk: Mathematics for Industry: Blockchain and Cryptocurrencies, University of Manchester. Sep 8 2018

Speed, C. Symons, Kate. (2018) Apocalyptic Design in the Capitalocene: Every-day Geopolitics and Blockchain. Workshop paper for Avoiding Ecocidal Smart Cities: Participatory Design for More-than-Human Futures. Participatory Design Conference, Hasselt & Genk, Belgium. 21st August 2018.

Speed, C. (2018) Designing Things with Spending Power, Keynote talk: Open Innovation – Interdisciplinary - Doing it for Real conference. Falmouth University. 15th June 2018.

Speed, C. (2018) The Robots are Here! Panel member, Festival of Politics, Scottish Parliament, Oct 11-13th 2018.

Speed, C. (2018) Designing Things with Spending Power, MSN CHI Lites, Montreal. 22/04/18

Speed, C. (2018) Designing Things with Spending Power, Datafest, Edinburgh 23/03/18

Speed, C. (2018) Innovation in the age of Artificial Intelligence: an executive's guide. Invited talk, Edinburgh Business School. 4th October.

Speed, C. (2018) Future of Work, Pecha Kucha, Whisky Bond, Glasgow, 25th Oct, 2018.

Speed, C. (2018) Design Informatics staff and students with Tesco Bank: Data Pipe Dreams, Edinburgh Art Festival, Assembly Rooms, George Street. August 2018.

Speed, C. (2018) Value Constellations for Gaming. Invited talk: Contine Conference, The British Gaming Institute, Edinburgh Business School. 16th August 2018

Speed, C. (2018) Designing Things with Spending Power. Invited talk for What the Block - making Blockchain more Human, IDA Innovate, Copenhagen, 9th July 2018

Speed, C. (2018) Designing Things with Spending Power. Invited talk for Coimbra Group & Group Montevideo (AUGM) Summer School: Smart and Inclusive Cities, Edinburgh. 4th July 2018

Speed, C. (2018) Drawings for Architecture Fringe 3x3 show. Edinburgh Printmakers, 15th June 2018

Speed, C. (2018) Designing Things with Spending Power. Invited talk for IPA Scotland Member's Reception, 10th May 2018

Speed, C. (2017) From Smart Contracts to Distributed Autonomous Things. SICSA IoT Cyber Security, Edinburgh. 20/04/17

Speed, C. (2017) Data Value Constellations for Circular Economies, CEED. 20/04/17

Speed, C. (2017) Distributed Autonomous Futures. sIREN conference 27/01/17

Speed, C. (2017) Tracing value within the Internet of Things, School of Informatics. 9/05/17

Speed, C. (2017) Block Exchange, Rimon Music School, Tel Aviv, Israel. 20/02/17

Speed, C. (2016) Designing From / With / By Data. RSE-MOST (Taiwan) Joint Project Workshop, Edinburgh, 20/10/16.

Speed, C. (2016) Predictive Materialities, Exposition, Drive 2016, Dutch Design Week, Eindhoven, 26/10/16.

Speed, C. (2016) Designing From / With / By Data for SiREN conference 26/06/16

Speed, C. (2016) Tales of Things, Millennial 20/20 Summit invited speaker, Victoria House, London, 3/5/16

Speed, C. (2016) RISE Connect Event EPSRC. Churchill Room, Houses of Parliament. 28/07/16

Speed, C. & Oberlander, J. (2016) Designing from, with and by Data: Introducing the ablative framework. International Design Research Society Conference 2016. University of Brighton, June 2016.

Ross, J., Sowton, C., Knox, J. and Speed, C. (2016) Artcasting, AHRC Common Ground: National Gathering of the AHRC Commons, York, 21/06/1

Speed, C. (2016) BlockExchange. Talbot Rice Gallery / Playtime, University of Edinburgh, 11/06/16

Speed, C. (2016) Designing From / With / By Data. RSE-MOST (Taiwan) Joint Project Workshop, Edinburgh, 20/10/16.

Speed, C. (2016) Invited talk: Designing From, With and By Data, Falmouth University, 18/10/16

Speed, C. (2016) Invited talk: Designing From, With and By Data, University of Lancaster, 07/07/16

Speed, C. (2015) European Consumer Summit, Shaping the Consumer Policy of the Future, Brussels, 1-2 June 2015 01/06/2015

Speed, C. (2015) Breaching the Smart Home, GIST / HCI Glasgow University. 26/06/2015

Speed, C. (2015) Dark Play In The Digital Arts 6th-7th July, Middlesex University 06/07/2015

Speed, C. (2015) Data and the City workshop, Invited talk, Maynooth University, 01/09/2015

Speed, C. (2015) Trust, Identity, Privacy and Security in the Digital Economy, EPSRC talk 03/09/2015.

Speed, C. (2015) Scotland Internet of Things conference, invited talk 30/09/2015

Speed, C. (2015) Pecha Kucha Visions of Future Cities, Institute for Future Cities, Glasgow 26/09/2015

Speed, C. (2015) GeoSciences Friday seminar 4/12/2015

Speed, C. (2016) Things2Things workshops, Jan, Feb & March TUDelft.

Speed, C., Rogers, J., Wallace, J., Shorter, M., Shingleton, D., Hupfeld, A., Selby, M. (2015) Designing the social back in to the High Street, Sixth Annual Digital Economy Meeting, Research Councils UK Digital Economy Conference 2015, Institute of Engineering & Technology, London. 10th December.

Oberlander, J. & Speed, C. (2015) Designing Human Data Interactions Panel at the 2015 British HCI Conference (British HCI '15), June, Lincoln.

Speed, C., Laurier, E. & Buscher, M. (2015) Algorithmic Practices: Emergent interoperability in the everyday Panel, at the RGS-IBG Annual International Conference 2015, Exeter, UK. September 2015.

Speed, C. (2015) *Designing Through the City as Database*. Designing Smart Cities : Opportunities and Regulatory Challenges, CREATe: RCUK Centre for Copyright and New Business Models in the Creative Economy, University of Strathclyde, Glasgow, UK. 31st-1st April.

Speed, C. (2015) Keynote address: Designing within an Internet of Things, at "The 1st International Symposium on Art & Technology" held by NTUE and ATATW, Taipei, Taiwan. 10th-11th January 2015.

Speed, C. (2015) Invited Talk: Seeing Data, for the Technology Accelerator Chiasma – 'Digital Imaging', 16th January 2015, Dundee.

Speed, C. (2015) Invited Talk: Designing with Data, Amazon Development Centre, Edinburgh. 2nd April 2015.

Speed, C. (2015) Inaugural lecture: The Random Lift and Other Algorithmic Stories, 24th Feb, Edinburgh College of Art, University of Edinburgh.

Speed, C. (2015) Invited Talk: *Things That Go Bump In The Night,* Caithness International Science Festival, 18th March, Wick.

Speed, C. 2014 *Designing within Networks.* Keynote address at All Makers Now? Conference, Falmouth University, 10-11th July.

Speed, C. 2014 *Connected Everyday Symposium*, TU Delft Invited speaker.

Speed, C. (2014) Invited Talk: *The Picture of Dorian Gray* talk at *Confessions and Realities of Early Career Research: Lifting the lid on today's challenges and skills for collaboration, knowledge exchange, and just being an early career researcher* 12-13 November, 2014, Grassmarket Community Centre, Edinburgh. Skills in Action is funded by the Arts & Humanities Research Council (AH/L011077/1) and Creative Scotland.

Speed, C. (2014) Invited Talk: *Fast Algorithms and Slow Things*, Aberdeen Science Festival invited talk.

Speed, C. (2014) Invited Talk: *My sculpture says that it deserves a better mark*. Presentation at Code Acts in Education: learning through code/learning to code. ESRC seminar series 2014-15. Seminar 3: Code Acts in Community & Lifelong Learning, 11 September 2014, University of Stirling.

Speed, C. (2014) Invited Talk: *Connected Communities Case Study.* Invited talk, Faculty of Creative and Cultural Industries, University of Portsmouth.

Speed, C. (2013) *Expanded Narrative symposium,* University of Plymouth.

Speed, C. (2013) *Art and Technology,* part of panel for the Edinburgh International Festival with Prof. Jon Oberlander & Prof. Peter Nelson. Chaired by theatre specialist Olga Taxidou.

Speed, C. (2013) *Hacking the City*, Yale-NUS College, Singapore.

Speed, C. (2012) Collaborative Mapping, Media Places Symposium, Umea, Sweden.

Speed, C. (2012) *Territorializing the Cloud*, AHRC Digital Transformations Moot, London.

Speed, C. (2012) *Social Internet of Things*, TSB Internet of Things Roadmapping, Loughborough.

Speed, C. (2012) *Ghosts, Zombies and the Internet of Things,* Internet Beta Conference, Poland.

Speed, C. (2012) Invited talk: *Translating work into a practical application,* The PhD Journey Conference, Aberdeen

Speed, C. (2012) Invited talk: *Ghosts and Talking Objects,* Talking Objects, British Museum.

Speed, C. (2012) Invited talk: *Ideas and approaches to engage students with museum collections*, Talk Science Seminar, Science Museum, London

Speed, C. (2012) Invited talk: *Disrupting the Museum,* Museums Association, Edinburgh.

Speed, C. (2012) Invited talk: 'Digital Objects and the Internet: 'Tales of Things', Material Culture, Manchester

Speed, C. (2012) Invited talk: *Ubiquity: Everywhere, Everytime, Everything,* AHRC Symposium: Cinematic Geographies of Battersea, University of Liverpool

Speed, C. (2012) Invited talk: *The 'internet of things', social memory and networked objects* Remediating Urban Space, Plymouth.

Speed, C. (2011) *Social Memory within the Internet of Things,* Critically Making the Internet of Things, Umea, Sweden.

Speed, C. (2011) *An Internet of Things That Do No Exist,* Future Everything Festival, Manchester.

Speed, C. (2011) *Ghosts, Memory and Things*, InDeSem 2011, Conference and workshop, TU Delft.

Speed, C. (2011) Invited talk: *Ghosts, Zombies and the Internet of Things*, Highwire PhD programme, Lancaster.

Speed, C. (2011) Invited talk: *If St. Augustine Had Had an iPhone: Multi-Disciplinary Perspectives on Antecedents of Travel Time Use,* Symposium on travel time use, value and experience. University of the West of England, Sarah Norgate, C Speed, N Davies.

Speed, C. (2011) Invited talk: *Approaches to Social Media,* National Social Media Week, Glasgow.

Speed, C. (2011) Invited talk: *The Map is not the Territory: a creative approach to developing locative and social media.* Scottish Technology Showcase, SECC Glasgow.

Speed, C. (2011) Invited talk: *Tales of Things at the Museum*, Edinburgh International Science Festival, National Museum of Scotland.

Speed, C. (2011) Invited talk: *National Museum of Scotland and Tales of Things Storytelling Workshop*. University of Edinburgh and the National Museum of Scotland.

Speed, C. (2011) Invited talk: *An Internet of Things that Don't Exist,* Learning Sciences Research Institute, University of Nottingham.

Speed, C. (2011) Invited talk: *An Internet of Old Things*, International Centre for Cultural and Heritage Studies, University of Newcastle.

Speed, C. (2011) Invited talk: *An Internet of Things that Do Not Exist*, SACHI Seminar Series. St.Andrews University.

Speed, C. (2011) *Exploration of Edinburgh's Old Town using the iPhone*, Royal Commission on the Ancient and Historical Monuments of Scotland.

Speed, C. (2010) *Tales of Things and Walking Through Time.* AHRC/BT funded research network, 'Landscapes, Memories and Cultural Practices'. University of Liverpool.

Speed, C. (2010) *Tales of Things and Other Ghost Stories*, Edinburgh University Speckled Computing Conference.

Speed, C. (2010) *TOTeM Technologies.* Accel REE Europe 2010, University of Edinburgh, School of Informatics

Speed, C. (2009) *An Internet of Old Things,* IT Futures Group at the University of Edinburgh.

Speed, C. (2008) Collaborative GPS, We Love Technology, Huddersfield.

Speed, C. (2007) The Edge Project: Residency at The Millfields Trust in Plymouth to work with a secondary stage student and the organisation, Feb 2007 – Summer 2008. Funded by Arts Council of England.

Speed, C. (2002) Three month artists residency at Unitec, School of Design, Auckland, New Zealand. Funded by Creative New Zealand.

Speed, C. (2002) SpaceLapse and other works at the Biennale of Electronic Arts, Perth. August 2002.

Speed, C. (2001) Crossing Over 6 International Digital Video Workshop: Two week artists residency at FACT: Foundation for Art and Creative Technology.

Speed, C. (2001) *TeleSocial Navigation* at E-naissance, La GAM - Galleria Civica di Arte Moderna e Contemporanea, Turin. 28-29 March 2001

Speed, C. (2001) Homunculus Man and Other Identities at Location: 9/11 Networks to Nanosystems, UC Santa Cruz. November 2001

Exhibitions / performances / workshops

2022 Speed, C. & Vines, J. Banks Don't You're your Money, They Hold Your Data. https://society5festival.com/agenda1/banks-dont-hold-your-money-they-hold-your-data/ October 12th.

2021 Speed, collaborative design performance: Miromations, Global Miro conference: Distributed 2021. October 20-21st.

2020 Speed, C., Vines, J., Elsden, C., Bidwell, N., Davies, N., Trotter, L., Harding, M., Kiayias, A., Abadi, A., Bunduchi, R. (2020) OxChain Showcase, final event. Streamed 14th October. Part of EPSRC OxChain project dissemination: https://oxchain.uk/

2020 Speed. C., Parkinson, C., Dixon, B., Morgan, E., Cruikshank, L., Newmarch, G., Knowles, B., Richards, D. (2020) My Data, My Self. Virtual Exhibition and Events at Dutch Design Week, Eindhoven / virtual. Part of EPSRC Co-Creation project dissemination: https://ddw.nl/en/programme/2937/my-data-my-self-exhibition & https://ddw.nl/en/programme/2938/my-data-my-self-tv-virtual-events

2020 Speed, C. Invited 'visionary' for Integration Strand, Future University Lab, UNA Europa project.

2018 Speed, Chris & Pschetz, Larissa. Exhibited work: Time Bots. AHRC Design Research for Change Showcase @ LDF2018. Old Truman Brewery 20–23rd September 2018

2017 Plastic Dinosaurs, 100 years. Exponential, Talbot Rice Gallery, Edinburgh. 24/04/17

2017 Block Exchange, Rimon Music School, Tel Aviv, Israel. 20/02/17

2017 Block Exchange, Alan Turing Institute. 31/01/17

2016 Exhibition, Design Informatics 'Living with Data' show, part of the Edinburgh Digital Entertainment Festival, 04/08/16 - 27/08/16.

2016 BlockChain City, Lab of Labs 48 workshop, Design and the City festival, Amsterdam (April 2016). Speed / Pschetz / Murray-Rust. http://designandthecity.eu/programme/lab-of-labs/blockchain-city/

2016 Drawing with Satellites GPS workshop, Digital Creativity Hub, University of York (March 2016).

2016 Co-Directed Things2Things, Workshops at TUDelft, Design United (January until March 2016).

2017 Block Exchange, EPSRC DLT Launch. 28/07/16

2016 Value Chains and Constellations exhibition of Product Designers at the Royal Bank of Scotland, Gogarburn (April 2016).

2015 Southern, J., Speed, C., Barker, C. and Moisy, A. (2015) Unruly Pitch. Part of temporary exhibition on Crowd Football Games June/July 2015, National Museum of Football, Manchester.

2015 Travel Behaviours Network, Future Cities Catapult, London. 15th June. & Travel Behaviours Network, Transport Catapult Catapult, Milton Keynes 23rd June.

2015 Co-Curator: Once Upon a Future, Public event part of the Scottish Design Summit. Warburton Gallery, Edinburgh. 21st May 2015.

2015 Hood, B. & Speed, C. (2015) Locating the Flow: A participatory promenade performance using locative media. Workshop at MEDIACITY 5, International Conference and Exhibition 1st – 3rd May 2015 Plymouth, UK

2015 Elsden, C., Kirk, D.S., Selby, M., & Speed, C. (2015). Beyond Personal Informatics: Designing for Experiences with Data. In Workshop proceedings of CHI 2015, ACM, New York.

2015 Speed, C., Maxwell, D., Tynan-O'Mahony, F., Mehrpouya, H., and Monsen, K. (2015) PuBliC. Workshop at Future Everything conference, 26th-27th February, Manchester. http://futureeverything.org/events/public-2/

2014 Dickinson, J., Cherrett, T., Speed, C. Collaborative Travel Communities in the Internet of Things. Video submission to the 2014 All Hands Digital Economy Conference, 3/12/14 – 5/12/14, Imperial College London and the Royal Geographic Society.

2014 Co-Director of the Internet of Cars Symposium and Distributed Exhibition, EPSRC and Arts Council of England funded. 6 Artists in shows across Southampton, Bridport, Winchester 13th May – 8th July. Symposium 24th September, University of Southampton. http://www.internetofcars.org.uk

2014 Masters Festival: Cityselfie Workshop, Edinburgh Arts Festival, 18th August Sculpture Court, Edinburgh College of Art Main Building, 74 Lauriston Place, Edinburgh

2014 "Is Your Marmite Watching You?" performance and public talk, part of Cabaret of Dangerous Ideas curated by the Beltane Public Engagement Network at the Edinburgh Fringe Festival.

2014 Producing Data: practices, materialities, values. 3rd – 4th September Edinburgh Centre for Carbon Innovation , High School Yards , Edinburgh Hosted by: Design Informatics, Edinburgh College of Art, University of Edinburgh. Organisers: Chris Speed, Gian Marco Campagnolo, and Siobhan Magee

2014 Temporal Design: An Interdisciplinary Workshop 28th – 29th May, Informatics Forum, 10 Crichton Street, Edinburgh. Organised by: Michelle Bastian, Larissa Pschetz and Chris Speed

2014 CoGet: Things Move People Around, Speed, C. & Shingleton, D. Workshop at Future Everything 2014. Manchester 30-31st March, 2014.

2014 TEDx Edinburgh, Fast algorithms and slow things, talk, 26th March 2014.

2013 Spaces of Flows 1.0: A working experience using Sixth Sense Transport technology: Dickinson, J. & Speed, C. Workshop at DE2013: Open Digital conference 4-6th November 2013.

2013 Speed, C. Shaping Things: Artefacts and the 3D Printer. Public workshop, Edinburgh International Festival. 30th August 2013.

2013 Speed, C., Shingleton,. & Smith, Lytton. Take Me I'm Yours Opera: Beyond the Supermarkets. Expanded Narrative Symposium, part of the Plymouth International Book Festival 2013. Fri 1st — Sat 2nd Nov 2013.

2013 Speed, C., Stewart, M., Macdonald, J. & Rawlinson, J. 2013 Casting Time #2, CAST ECHOES Exhibition, Tent Gallery Evolution House. 17th – 28th June 2013, Tent Gallery, Edinburgh College of Art.

2012 I Am Seeing Things, Exhibition and Symposium exploring the emerging discussions and designed artefacts toward the Internet of Things, Talbot Rice Gallery, Edinburgh. 25th – 26th October 2012.

2012 Speed, C., Stewart, M., Macdonald, J. & Rawlinson, J. 2012 Casting Time, Cast Contemporaries, Edinburgh Art Festival, August 2012.

2009 Speed, C. Office Time | A Day in the life of an Architecture Practice in collaboration with Foerign Office Architects London. Featured in Architecture& [Work], Winter 2009

2011 Speed, C. *RememberUs* FutureEverything, Manchester, May 2011.

2011 Speed, C. *RememberMe* FutureEverything, Manchester, May 2010.

2010 Speed, C & TOTeM team *Tales of the City* London Festival of Architecture, June 2010.

2010 Southern, J. & Speed, C. *CoMob*, Workshop at FutureSonic Digital arts festival

2009 Southern, J. & Speed, C. *CoMob* Workshop and exhibition at ISEA2009 Digital arts festival / conference Belfast

2008 Speed, C. *Routines* exhibited at the Plymouth Arts Centre part of Social Operating System show, February 2008.

2007 Giaccardi E, Fogli D, Gelsomini I, Pedrazzi F, Sabena G, Speed, C. *The Silence* Acoustic Recording and GPS system, exhibited and demonstrated at Sonic Arts Festival, Plymouth, June 2007.

2004 *IBeam* - The Dancers Edition, University of Plymouth, CD-Rom ISBN 1-84102-126-1 Featuring fonts by Candoco, Lone Twin, Attik, Tim Etchells (Forced Entertainment), Rosemary Lee, Blast Theory, Siobhan Davies

2004 *Out of Scale* – Architects artifacts at a microscopic level at the Plymouth Arts Centre featuring new works by Wayne Hemingway, Ron Arad Associates, Feilden Clegg Bradley, dRMM, Richard Rogers Partnership, Caruso & St.John Architects, Will Alsop Architects, Sana Murrani, GHM Consultancy Group, Rick Mather Architects, Henning Larsens Tegnestue, Peter Anders, Maia Engeli, Liminal , Jonathan Wright Projects, Arch-OS, Thomas Heatherwick Studio

2003 *IBeam* – Fonts by Architects at the Plymouth Arts Centre featuring fonts developed by Will Alsop, Wayne Hemingway, Form Design Group, Future Systems,

dRMM, Feilden Clegg Bradley, Stephen Perrella, Neal Huston. CD-Rom of fonts published to accompany show.

2003 Speed, C. *The Random Lift Button.* Site specific permanent installation at the Portland Square Building, University of Plymouth.

2002 *Catalogue* – Exploring the publics relationship with architecture through Catalogues, Shop windows and the media, at the Plymouth Arts Centre featuring works by Lucas Bambozzi, Mike Nelson, Pletts-Haque, Jane prophet, Keith Wilson. The show was supported by the Arts Council of England.

2002 Speed, C. *SpaceLapse* Digital film shown on HTV part of Brief Encounters 2002 Television Programme produced by Wildfire Productions. 18/12/02

2002 Speed, C. *The Production Room* artwork shown in the Variable D Gallery Show at The Castlefield Gallery, Manchester 6th June – 16th June 2002 also shown in the Variable-D Gallery, Magazine Exhibition / Flux Magazine Oct Edition

2001 *V01D* – Digital Architecture exhibition at the Plymouth Arts Centre featuring works by General Lighting and Power, Peter Anders, Fiona Bailey, Stephen Perrella and Iain Borden. Book published to accompany show.

2001 Speed, C. *Places of Difference* Digital film shown at TRANZ <-> TECH the 2nd Toronto International Video Art and new Media Biennial.

2001 Speed, C. *Places of Difference* Digital film shown at Crossing Over 6 – Digital Video Shorts, Micro Festival, Liverpool. 2001

2001 Speed, C. *Places of Difference* Digital film shown at Ars Electronica 2001

2001 Speed, C. Rules for the Production of Space' shown in Space Doubt show, Studio 51, Plymouth. 2001

2001 Speed, C. & Wright. J. *Time Wedge* exhibited in Lost Property Group Show, Camden Roundhouse, London.

1999 Speed, C. Co-Produced and Directed *Bi-Planar*, Digital film premiered at the West London Film Festival July 1999

1999 Speed, C. *Tools for the Post-Cartesian City* in WOW: Redefining the City, Art/Architecture show at the Plymouth Arts Centre, 1999

1999 Speed, C. *Raindance* Prize winner in British Telecom Interactive Technologies for the Internet competition. 1999

1999 Speed, C. *Commissioned to develop a temporal navigation scheme for the interior of Norton Park Project*, Edinburgh, Scotland.

Knowledge Exchange/Impact

Collider: Keeping Promises - Responsible and Sustainable Tourism in Scotland, June 25th 2021. Chaired

National Workshop: Scottish Government, Toward an Ethical Nation. Creative Industries – 14th May 2021. Chaired

Collider: Technology and Tours Virtual Collider, 6th October 2020.

Block Exchange / Block chain design thinking workshop delivered to various institutions nationally and internationally throughout 2016-2017 http://blockexchange.designinformatics.org

Amafit Collider, Amazon, 31/08/16.

ThingSense Poster, Data Science event, 12/10/16.

NGS Collider, ECA, 14/10/16.

CityScope Soft Launch - Co-Host, University of Edinburgh, 03/05/16

Digital Tourism Webcast, 10/05/16

Speed / Oberlander: Futures workshop, BBC R&D, MediaCity, Manchester, 31/10/16.

A formal working group, expert panel or dialogue - Presentation to the Gartner Research Board. 16/11/16

A formal working group, expert panel or dialogue - Invitation to Digital Lives workshop, Cambridge. 10/01/17

Participation in an activity, workshop or similar - Cultural Value Scoping Project - Workshop, Edinburgh, 18/01/17

Participation workshop: TechStock Event RBS, showcase. 10/16

Chairing workshop: Connected Seeds, EPSRC project final workshop, London. 1/02/17

Chairing of Conference: Research Through Design, National Museum of Scotland, 22-24/03/17

PI to Innovation voucher with Wallscope / Fruitmarket Gallery. £5k

Tesco Bank Mercury Project: Industrial development programme 2018-2019 & 2019. £87k x 2

Data Marketing Association: White paper, talks series, 2019-2020. £17k

Edinburgh World Heritage Trust Collider, 14/01/2020

Media

1/11/2022 The connection creator, University of Edinburgh: https://www.ed.ac.uk/impact/people/the-connection-creator

21/10/2020 Interviewed For Creative Cardiff "Get A 'Proper' Job podcast, series two, episode #3 - "Connecting with audiences using digital content" alongside Kelly Barr, (Arts and Creativity Programme manager for Age Cymru) discussing the rapid move to digital for creative workers as a result of COVID-19: http://creativecardiff.org.uk/get-proper-job-series-two-episode-3-connecting-audiences-using-digital-content

2050 Think Pieces for Scottish Government: https://www.transformingplanning.scot/national-planning-framework/call-for-ideas/2050-think-pieces/ Professor Chris Speed - Our Arts and Cultural Environment

04/05/2020 The value of data + design to society Blog and Podcast for Deloitte 04 May. https://www2.deloitte.com/uk/en/blog/deloitte-in-scotland/2020/the-value-of-data-design-to-society.html

07/04/2020 Five new predictions for the future of money by Ian Fraser https://www.raconteur.net/finance/future-money-predictions

08/06/2019 Academics warn of the dangers of too much tech in your house, The Metro: https://metro.co.uk/2019/06/06/academics-warn-of-the-dangers-of-too-much-tech-in-your-house-9839873/?ito=article.mweb.share.top.twitter

06/06/2019 Data is the new oil: Rise of the internet connected smart products means our privste information is increasingly valuable to companies, experts warn, The Daily Mail: https://www.dailymail.co.uk/sciencetech/article-7111575/Our-data-valuable-oil-expert-warns.html

03/05/2018 Explaining Bitcoin technology using weddings and fridge magnets. Invited blogpost for the ESRC: https://blog.esrc.ac.uk/2018/05/03/explaining-bitcoin-technology-using-weddings-and-fridge-magnets/

01/03/2017 Centre for Design Informatics, day in the lab http://interactions.acm.org/enter/view/centre-for-design-informatics

18/9/16 Contributor to Aleks Krotoski article for the Guardian: https://www.theguardian.com/technology/2016/sep/18/are-we-losing-the-love-of-things

9/2/15 Invited contributor to the Culture Studio with Kevin Ashton BBC Scotland. http://www.bbc.co.uk/programmes/b051vqvs

9/5/14 The Collective: The Past (and Future) Stories of Second-Hand Things, Derek Korte http://www.wired.com/campaigns/theconnectivehub/?p=272

28/1/13 Call me a cab – and get me top tourist attractions as well   Article published in The Scotsman, January 28th, 2013

28/10/13 BBC R4 Digital Human. Episode 4: Value. Feature on Tales of Things: http://www.bbc.co.uk/programmes/b03f92q7

7/3/12 Vodafone World of Difference, Oxfam Shelflife app reveals secret life of donated items, http://worldofdifference.vodafone.co.uk/news/archives/9305

1/3/12 BBC Radio 4, Newsjack, Episode 2 Series 6 http://soundcloud.com/fabricatedtweek/bbc-radio-4-extra-newsjack

5/5/11, Pasta and Vinegar, An internet of things that don't exist by Nicolas Nova, http://liftlab.com/think/nova/2011/05/05/an-internet-of-things-that-do-not-exist/

14/4/11, Guardian on-line, Museum collection gets QR codes by Michael MacLeod http://www.guardian.co.uk/edinburgh/2011/apr/14/edinburgh-national-museum-scotland-qr-codes

13/1/11, Metro, QR Codes Pick Up on Hidden Messages by Will Samson, http://www.metro.co.uk/tech/852526-qr-codes-pick-up-on-hidden-messages

8/12/10, Japan Times, *A relationship with the city* by Verena Dauerer http://search.japantimes.co.jp/cgi-bin/nc20101208a1.html

11/2010, Wired Magazine, Tales of Things, Listed in Top 25 Tech for 2011, Chatitecture by Alex Haw

3/9/10, NY Times Magazine, The Back Story by Rob Walker http://www.nytimes.com/2010/09/05/magazine/05FOB-Consumed-t.html?_r=3

7/6/10, Wired, Spime Watch: The Internet of Old Things by Bruce Sterling http://www.wired.com/beyond_the_beyond/2010/06/spime-watch-the-internet-of-old-things/

13/5/10 BBC Manchester, Tales for sale at Oxfam charity shop in Manchester by Richard Turner http://news.bbc.co.uk/local/manchester/hi/people_and_places/newsid_8680000/8680310.stm

12/5/10 Wired, Oxfam Donations Get RFID Memories Read by iPhones by Duncan Geere http://www.wired.co.uk/news/archive/2010-05/12/oxfam-donations-get-rfid-memories-read-by-iphones