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Research interests

Chris has a background in software systems development with extensive experience of the information systems industry and previous involvement in psychology and vision research. After initially graduating in psychology he worked for Professor Richard Gregory as a research assistant in the Brain and Perception Laboratory at the University of Bristol, investigating visual illusions and phenomena at isoluminance. His major project was the development of a computerised colour vision testing system which used heterochromatic flicker photometry to measure red/green hue discrimination; this system was installed in Bristol Eye Hospital and featured on the BBC's "Tomorrow's World" programme [published as "A New Computer Graphics Test for Red/Green Colour Anomaly"; Heard, Stone, Gregory and Marmion (1987), Colour Vision Deficiencies, vol.8]. During his subsequent career in information systems, he worked in fields including medical laboratory systems, nuclear power station management information systems, and the commercial sector; eventually becoming a Fellow of the Institution of Analysts and Programmers. A significant part of his career was his role in a global media and publishing company where he led a team of senior developers and business analysts and undertook investigations of business system problems around the company's European operations, designing developing and implementing IT solutions. Chris joined the School of Experimental Psychology as an honorary member of staff in May 2011 to provide systems development expertise for research projects, primarily in the field of vision research. This involved (in collaboration with a researcher at the University of Cambridge) development of a software package which uses a computer model of visual processing to analyse differences between images and evaluate the conspicuity of objects, with application to railway signal safety, and constructing an interface to allow non-technical users to access and operate this model. Currently he is a Senior Research Associate in the Tobacco and Alcohol Research Group, using wearable technology to develop innovative methods of capturing lifestyle health behaviour data "in-the-wild", with a view to developing targeted "just-in-time" health interventions. Recent projects include the "stopWatch" (patented) system for passive detection of cigarette smoking, and "dataWatch", a researcher-customisable system for the active capture of behavioural data using ecological momentary assessment.

Research outputs

Future directions for integrative objective assessment of eating using wearable sensing technology
Skinner, A. L., Toumpakari, Z., Stone, C. J. & Johnson, L., 2 Jul 2020, In: Frontiers in Nutrition. 9 p., 80.

StopWatch: The preliminary evaluation of a smartwatch-based system for passive detection of cigarette smoking
Skinner, A. L., Stone, C. J., Doughty, H. & Munafò, M. R., 24 Jan 2018, (E-pub ahead of print) In: Nicotine and Tobacco Research. 5 p., nty008.

New technology and novel methods for capturing health-related data in longitudinal and cohort studies
Stone, C. & Skinner, A., 2018, London: CLOSER (Cohort and Longitudinal Studies Enhancement Resources).

Study protocol: Effects of acute alcohol consumption on visual processing: attenuating top-down interference of object recognition
Attwood, A. S., Zhaoping, L., Stone, C. J., Stevanov, J., Scott-Samuel, N. E., Maynard, O. M. & Munafo, M. R., 2018, (E-pub ahead of print) (Open Science Framework).

Smoking status and attractiveness among exemplar and prototypical identical twins discordant for smoking
Skinner, A., Woods, A., Stone, C. J., Penton-Voak, I. & Munafo, M., Dec 2017, In: Royal Society Open Science. 4, 10 p., 161076.

Method and device for detecting a smoking gesture
Skinner, A., Stone, C. J., Doughty, H. & Munafo, M., 3 Aug 2017, IPC No. A61B 5/11, World Intellectual Property Organisation, Patent No. WO 2017/129946, 18 Jan 2017, Priority date 26 Jan 2016, Priority No. 1601342.7

Study protocol: Assessment of nicotine replacement therapy for harm reduction in smokers
Stone, C. J., Skinner, A. L., Tilling, K. M., Davey Smith, G. & Munafo, M. R., 2017, (E-pub ahead of print) (Open Science Framework).

A Visual Cortex Model software package for evaluating the conspicuity of objects
Stone, C. J., 2015, In: Visual Systems Journal (IAP).

A new computer graphics test for red/green colour anomaly
Heard, P., Stone, C. J., Gregory, R. & Marmion, V., 1987, In: Colour Vision Deficiencies. 8, p. 181-194 14 p.