

Brief CV: Professor David Crundall

Academic Qualifications:

- PhD, Exp. Psychology (1996-1999), "Driving experience & the acquisition of visual information", University of Nottingham
- BA (Hons) Psychology (1991-1996), first class, U. of Nottingham
- Diploma of Applied Psychology (1993-1994), awarded by the University of Nottingham for work conducted at the Army Personnel Research Establishment (a forerunner of Qinetiq).

Positions and responsibilities:

- Member of the Parliamentary Advisory Council on Transport Safety (Road User Working Group).
- Head of the NTU research group Transport Research in Psychology (TRiP)
- Member of the Economic and Social Research Council's Peer Review College.
- Member of two European Working Groups on motorcycle and bicycle safety (2008-2016).
- Member of the Experimental Psych. Soc., Traffic Psychology International, and the Int. Ass. of Applied Psychologists.

Recent Invited talks

- Invited Keynote at the International Congress of Applied Psychology, Montreal June 26-20, 2018.
- Invited presentation at the Alarm Blue Light Seminar (14/11/17): "Hazard perception in fire appliance drivers".
- Invited presentation to the Dutch CBR (6/11/17) on "Considerations when developing a hazard perception test"
- Invited talk at the Lifesavers Conference, sponsored by NHTSA (March, 2017; North Carolina): "What drivers know and do not know about motorcyclists"
- Invited Talk at '100% Optical' (Feb, 2017; eXcel Centre, London) – "Eye movements & spotting hazards on the road"
- Invited talk at the 12th Joint Symposium of the German Society for Traffic Medicine (DGVM) and the German Society for Traffic Psychology (DGVP), (Sept., 2016), Rostock, Germany.
- Invited Talk, University of Waikato, New Zealand (July, 2016).
- Keynote at 'Driving for better business Champion Event', (May, 2016), National Motorcycle Museum, Solihull.
- Invited talk at the US Transportation Research Board Subcommittee on Young Drivers (Aug 2015), Falmouth MA.

Examples of funding received (total > £3 million over 15 years)

- 2018-2020 £135,000, funding by the Road Safety Trust (£100k), the RAC Foundation (£25k) and the DVSA (£10k) for exploring the utility of VR for assessing and training hazard perception skills (Principal Investigator).
- 2018 £66,000, funded by a commercial sponsor to create input for a Direct Neural Network that will form the basis of hazard perception algorithms for future autonomous vehicles (Principal Investigator).
- 2018 £60,000, funded by a commercial sponsor for the development and validation of a bus driver hazard prediction test (Principal Investigator).
- 2017 £90,000, funded by the Department for Transport: 'Developing an integrated hazard perception and highway code training and assessment tool' (Principal Investigator).
- 2017 £98,604, funded by the Road Safety Trust: Assessing the potential of mindfulness training in improving driver safety (Principal Investigator).
- 2014-2018 £71,000 funded by the Fire Service Research and Training Trust (FSRTT) to develop hazard perception tests for fire service drivers.

Recent relevant publications

- Ventsislavova, P., **Crundall**, D., Baguley, T., et al. (2019). A cross-cultural comparison of hazard perception and hazard prediction tests across China, Spain and the UK. *Acc. Anal. and Prev.*, *122*, 268-286.
- **Crundall**, D., and Kroll, V. (2018). Prediction and perception of hazards in professional drivers: Does hazard perception skill differ between safe and less-safe fire appliance drivers? *Acc. Anal. and Prev.*, *121*, 335-346.
- **Crundall**, D., Howard, A., and Young, A. (2017). Perceptual training to increase drivers' ability to spot motorcycles at T-junctions. *Trans. Res. Part F*, *48*, 1-12.
- Young, A. H., **Crundall**, D., & Chapman, P., (2017). Commentary driver training: Effects of commentary exposure, practice and production on hazard perception and eye movements. *Acc. Anal. and Prev.*, *101*, 1-10.
- Young, A.H., Mackenzie, A.K., Davies, R.L., & **Crundall**, D. (2017). Familiarity breeds contempt for the road ahead: The real-world effects of route repetition on visual attention in an expert driver. *Trans. Res. Part F.*, *57*, 4-9.
- Ba, Y., Zhang, W., Peng, Q., Salvendy, G., and **Crundall**, D. (2016). Risk-Taking on the Road and in the Mind: Behavioural and Neural Patterns of Decision Making between Risky and Safe Drivers. *Ergonomics*, *59*, 1, 27-38.
- **Crundall**, D. (2016). Hazard prediction discriminates between novice and experienced drivers. *Acc. Anal. and Prev.*, *86*, 47-58.