


# Ashleigh Filtness Ph.D, BSc (hons), DPS, CBiol, FHEA

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 @AJFiltness



## Personal summary

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I am a driven and enthusiastic academic with 11 years post Ph.D experience in road safety and sleep research, **85 peer reviewed publications (53 journal, 33 conference)**, **over £3.5mil of research income** (including over £1 mil as principle investigator), 3 book chapters and over 48 research reports

## Research and Teaching Interests

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Causes and contributors to sleepiness and fatigue, impact of fatigue and sleepiness on safety, mitigating and managing sleepiness/fatigue impairment, road transport safety, rail transport safety, occupational safety and fatigue, human factors, evidence-based policy making, driver impairment, driving simulators, mixed methods.

## Education

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- 2021: **Level 2 Certificate in Awareness of Mental Health Problems**, NCFE CACHE, UK
- 2019: **Level 5 Diploma in Leadership and Management**, The Institute of Leadership and Management, UK
- 2011: **Ph.D** (Driver Sleepiness), Loughborough University, UK  
Thesis: *Obstructive Sleep Apnoea and Day time Driver Sleepiness*. Supervisor: Dr Louise Reyner, Director of Research: Prof Jim Horne
- 2007: **BSc (hons)**, Human Biology, First Class, Loughborough University, UK

## Professional Status

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- FHEA (2020)** Fellowship of the Higher Education Academy
- CBiol (2012)** Royal Society of Biology, UK: Professional status: **Chartered Biologist, MRSB**

## Employment History

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- Oct 2020 - present **Senior Lecturer of Human Factors in Transport Safety**  
Loughborough University School of Design and Creative Arts
  - Strategic leadership in School and Centre committees.
  - Leading a team of researchers
  - Teaching on undergraduate and masters programmes
- May 2018 – Sept 2020 **Lecturer in Transport Safety**  
Loughborough University Design School
  - Supervision of students and research assistants.
  - Working in international research collaborations.
- Feb 2016 – April 2018 **Senior Research Associate** (100% research), Supervisor: Prof Pete Thomas  
Loughborough University Design School
  - Work Package leader on Horizon 2020 funded project SafetyCube.
  - Leading the Loughborough research involvement in all work packages.
  - Supervision of research staff.
- Feb 2013 – Jan 2016 **Research Fellow** (100% research), Supervisor: Prof Narelle Haworth  
Centre for Accident Research and Road Safety – Queensland (CARRS-Q)  
Queensland University of Technology .
  - Project manager ensuring completion of projects in a timely, cost effective manner.
  - Involvement in centre strategic planning activities.
- Feb 2011 – Feb 2013 **Research Fellow** (100% research), Supervisor: Dr Missy Rudin-Brown  
Monash University Accident Research Centre (MUARC), Human Factors Team  
Monash University
  - Developing and conducting driving simulator studies.
  - Working on both large grant projects and industry funded research.

## Honours and Awards

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| Competitive awards              | <ul style="list-style-type: none"><li>• Prince Michael International Road Safety Award (2019) for SafetyCube project</li><li>• William Floyd Award of the Chartered Institute of Ergonomics and Human Factors (2019) for outstanding and innovative contribution by a single project: Application of contemporary systems based methods to reduce trauma at rail level crossings.</li><li>• British Sleep Society young sleep researcher award (2009).</li></ul>  |
| Visiting Fellow                 | <ul style="list-style-type: none"><li>• Queensland University of Technology (2019 – 2021) and (2016 - 2017)</li></ul>   |
| Expert advisory board /reviewer | <ul style="list-style-type: none"><li>• ADAS&amp;Me EC H2020 project Expert Advisory Board</li><li>• Expert reviewer Navigatus Consulting, NZ</li></ul>   |
| Partnerships and collaborations | <ul style="list-style-type: none"><li>• Competitively awarded by the Health Collaborative Research Network in recognition of merit for existing research and for potential in establishing high performing and sustainable partnerships. Human Factors in Transport Exchange Program with Appleton Institute, Central Queensland University: Fatigue and SPAD risk.</li></ul>   |
| Best conference paper           | <ul style="list-style-type: none"><li>• The Peter Vulcan Award for best research paper at the 2013 Australasian Road Safety Research, Policing and Education Conference. Salmon, P. M., Lenné, M. G., Walker, G., &amp; Filtness, A. J. (2013, August 28-30). Investigating the factors influencing cyclist awareness and behaviour: an on-road study of cyclist situation awareness.</li><li>• The best paper award at the 11<sup>th</sup> International Symposium of the Australian Aviation Psychology Association. Lenné, M., Salmon P.M., Beanland V., Stanton N.A., Filtness A. J. (2014, Nov) The application of decision-making paradigms to map real-world driver decision-making at rail level crossings.</li></ul> |
| Competitive training courses    | <ul style="list-style-type: none"><li>• Selection on to the 2011 International Master Class in Biomechanics for Design for Injury Prevention, Loughborough University, UK. This 4 day classroom based training course was conducted by international experts, including a focus on anthropometry and ergonomics for design. A travel grant to attend was awarded.</li><li>• Selection to ESRS-EU Marie Curie FENS Project 2007 – 2010. Sleep Research Training Course and practical training. A 6 day residential training course in sleep research, a 5 day practical training at Sleep and Wake Disorders Center, Department of Neurology, University Hospital Zürich, Switzerland 2009 and a 5 day symposium.</li></ul>    |

## Professional service and professional memberships

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| Editorial board     | <ul style="list-style-type: none"><li>• Associate (handling) Editor, Safety Science, May 2021- present. ISSN:0925-7535, IF 4.9</li><li>• International editorial board, Applied Ergonomics. Nov 2016 – present. ISSN:0003-6870, IF3.7</li></ul>  |
| Guest editor        | <ul style="list-style-type: none"><li>• Shiftwork special issue Chronobiology International (in prep) ISSN:0742-0528</li><li>• Fitness to Drive special issue Transportation Research Part F (2018). ISSN:1369-8478</li></ul>  |
| Book editor         | <ul style="list-style-type: none"><li>• Fatigue in Transportation (working title; in prep), CRC Press, co-editor Dr Rudin-Brown</li></ul>  |
| Grant reviews       | <ul style="list-style-type: none"><li>• Independent expert Innovation and Networks Executive Agency (INEA) Mobility for growth European Commission Horizon 2020.</li><li>• Peer Reviewer Australian Research Council (ARC)</li></ul>   |
| Manuscript reviews  | <ul style="list-style-type: none"><li>• Applied Ergonomics, Accident Analysis and Prevention, Traffic Injury Prevention, IET Intelligent Transport Systems, IATSS, Human Factors of Ergonomics in Manufacturing and Service Industries, Safety Science, Journal of Psychosomatic Research, Journal of Sleep Research, Biological Psychology, Injury.</li></ul>                 |
| University service  | <ul style="list-style-type: none"><li>• Loughborough University Senate (elected member), School Athena SWAN subgroup member, School Outreach team member, School Research Events team member, School Research and Enterprise committee. Lead Loughborough University Sleep Research Network. Loughborough University Research Staff Association committee 2016-2018.</li></ul> |
| External Committees | <ul style="list-style-type: none"><li>• European Sleep Research Society, Early Career Network Executive Committee 2014-16. Chair June 2015 – Feb 2016.</li><li>• 2016 International Symposium on Somolence and Safety. Scientific Committee member</li><li>• Australasian College of Road Safety – Queensland, 2015.</li></ul>   |
| Memberships         | <ul style="list-style-type: none"><li>• European Sleep Research Society, Royal Society of Biology, UK Road Safety Policing Academic Network, Women’s Higher Education Network (WHEN), Working Time Society</li></ul>   |

## Supervision

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### Current (primary)

- Ph.D Rachel Talbot. Analysing road traffic crash causation from a systems-based perspective: applying the Driver Reliability and Error Analysis Method (DREAM).
- Ph.D Robert Philips. Fatigue in tunnelling operations.
- Ph.D Lloyd Jones. Driver coaching to improve safety

### Current (secondary)

- Ph.D Charlotte Merrick. Multisensory integration of human wetness perception.
- Ph.D, Amy ODell “Investigating Interactions between vulnerable road users and autonomous vehicles” School of Design and Creative Arts, Loughborough University.

### Completed

- Ph.D, Frances Pilkington-Cheney, “Individual Countermeasures to Driver Sleepiness” (2021) School of Design and Creative Arts, Loughborough University.
- PhD, Aikaterini Christogianni, “ Behavioural and Physiological thermoregulatory mechanisms implicated in heat and cold sensitivity in multiple sclerosis” (2021) School of Design and Creative Arts, Loughborough University.
- Ph.D, Alexander Kunze “Enhancing User Experience and Safety in the context of Automated Driving Through Uncertainty Communication” (2019) School of Design and Creative Arts, Loughborough University.
- BSc Hons, Marcus Adie “Use of mobile music devices to stream music in cars” (2020) School of Design and Creative Arts, Loughborough University.
- BSc Hons, Edward Morgan “An investigation into the effectiveness of a sugary snack as a countermeasure to driver sleepiness” (2020) School of Design and Creative Arts, Loughborough University.
- BSc Hons, Sophie Curzon “The effect of caffeine on sleep quality and subsequent morning driving performance” (2019) Design School, Loughborough University.
- Ph.D David Rodwell “Investigating Perceptions of emerging technology in Driver Education” (2018) Centre for Accident Research and Road Safety – Queensland, Queensland University of Technology. Primary supervisor 2015-2016.
- PGDip Psychology Peter Sheppard “Driver sleepiness in urban driving” (2016) Centre for Accident Research and Road Safety – Queensland, Queensland University of Technology
- PGDip Georgina Lavan “Driver personality and driver sleepiness in urban driving” (2016) Centre for Accident Research and Road Safety – Queensland, Queensland University of Technology
- Vacation Research Scholar Alana Hawkins “Driver Sleepiness and social media” (2016) Output: one journal paper, one conference paper

## Teaching

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**Loughborough University School of Design and Creative Arts (2018 - present)**

Lecturing: Cognitive Ergonomics (DSP101), Transport Safety (DSP121),

Workshops: Design Research Methods (DSP851),

Project supervision: UX Major Projects (DSP866)

Tutoring: Diploma of industrial studies (DSI001), Personal tutor

**Invited lectures:** Loughborough University (2017) Ergonomics BSc, Belarusian Road Safety Network/Loughborough University (2016) Road Safety MSc, Australian National University (2012) Biological Psychology BSc

## Continued Professional Development

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- My commitment CPD in activities related to human measurement (e.g. EEG and eye tracking) has been recognised by the Royal Society of Biology in awarding Chartered Biologist Status (2012 - present).
- ILM Level 5 Diploma in Leadership and Management (2019). Modules completed: Becoming an effective leader, Human Resource Management, Leading Innovation and Change, Managing Improvement, Making a Financial Case, Project management, Understanding Financial Management, Understanding the impact of stress, the Importance of Marketing for the Organisation, Understanding the Management Role.
- Aurora Woman in Academic Leadership. Example modules: Identity, Impact and Voice.
- Loughborough University Centre for Academic Practice Taught Course (resulting in FHEA). Modules completed: Approaches to Learning and Teaching, Curriculum Design, Assessment, Inclusivity, Personal tutoring, Teaching small groups, Teaching large groups, Communicating research, Digital resources for teaching, Academic Enterprise, Embedding research and enterprise in the curriculum, Ph.D Examination

## Research and Enterprise funding (>£3.5mil total)

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| Internationally competitive grants | <ul style="list-style-type: none"> <li>• Anund, A, <b>Filtness, A.J et al.</b>, (2021) PANACEA Awarded by The European Commission H2020. ~€3.5mil Euro across 17 partners. ~€233k to home institute as PI</li> <li>• Brijs, T, <b>Filtness, A.J et al.</b>, (2019). iDreams Awarded by The European Commission H2020. ~€6.3mil Euro across 12 partners. ~€960k to home institute as PI</li> <li>• Thomas, P., <b>Filtness, A.J et al.</b>, (2018) Levitate. Awarded by The European Commission H2020. ~€6.4mil across 12 partners. ~€1.4mil to home institute.</li> </ul>  |
| National competitive grants        | <ul style="list-style-type: none"> <li>• <b>Filtness, A.J.</b>, Talbot R., (2020) Reducing the risk of sleep-related crashes in young drivers. Awarded by Road Safety Research Grant Funding Support from Department for Transport. £73,746</li> <li>• Morris, A., Thomas, P., <b>Filtness, A.J et al.</b>, (2019) International Research Centre to Investigate the Effects of Vehicle Automation on Vulnerable Road Users (ICAROS). Awarded by Research England International Investment Initiative Funding (I3). ~£1.4mil across 3 partners. £435k to home institute.</li> <li>• Watson, B., Bates, L., &amp; <b>Filtness, A. J.</b> (2014, June) Developing and evaluating a theoretically grounded novice driver education program incorporating simulators. Awarded by Australian Research Council Linkage Projects. \$203,000, plus \$75,000 partner contribution.</li> <li>• Beanland, V., &amp; <b>Filtness, A. J.</b> (2014, July) Effects of sleep loss on change detection while driving. Awarded by the NRMA-ACT Road Safety Trust. \$51,814 home institute PI</li> </ul>  |
| Commercial contract research       | <ul style="list-style-type: none"> <li>• <b>Filtness, A.J.</b> (2020, Jan). Review of Go-Ahead fatigue event data collection form. Awarded by Go-Ahead London Ltd.,.</li> <li>• <b>Filtness, A. J.</b>, Waterson, P. (2019, Dec) Understanding the factors affecting safety behaviours of controllers of site safety (COSSs). Awarded by Rail Accident Investigation Branch £22,855.</li> <li>• <b>Filtness, A. J.</b>, Anund, A (2018, July). London Bus Driver Fatigue. Awarded by Transport For London.</li> <li>• <b>Filtness, A.J</b>, Haslam, R., Gibb, A., Jones, W., (2018, May). Investigating fatigue in tunnelling workers. Awarded by Tideway</li> <li>• Debnath, A., Haworth., N., <b>Filtness A.J.</b> Demmel, S. (2015 Oct). Road User Interaction with worksites</li> <li>• Wishart, D., Biggs, B., <b>Filtness, A.J.</b>, Watson, A., Rowland, B., Schramm, A, Haworth, N. (2015, Mar). Research proposal to reduce the crash involvement of taxis in Queensland: Situational analysis and crash and exposure analyses. Awarded by the Motor Accident Insurance Commission (MAIC).</li> <li>• Freeman, J., Watson, A., <b>Filtness, A.J.</b>, Wilson, H., Siskind V. (2015, Feb). Understanding drink-drivers, their re-offence and crash rates and the impact of sanctions. Awarded by VicRoads, State Government of Victoria.</li> <li>• Laure, G., <b>Filtness, A.J.</b>, Wood, J., Naweed, A., Rakotoniraiy, A (2015, Jan). Review of stop sign level crossing sighting distance. Awarded by Australasian Centre for Rail Innovation.</li> <li>• Rakotonirainy, A., <b>Filtness, A. J*</b>, Demmel, S., Blackman, R., Wishart D (2014, Dec). Literature and Product Review of Motorcycle Instrumentation Systems for Naturalistic Riding Studies. Awarded by Transport for New South Wales.</li> <li>• Smith, S., <b>Filtness, A.J*</b>, Rowland, B. (2014, Nov) Review of taxi driver fatigue. Awarded by Transport for New South Wales.</li> <li>• Freeman, J., Armstrong, K., Palk, G., <b>Filtness, A. J*</b>, Davey, J., &amp; Kiata-Holland, E. (2014, April) Drug driving policy review. Awarded by Transport for New South Wales</li> <li>• Watson, B., Bates, L., <b>Filtness, A. J.</b>, &amp; Fleiter, J. (2013, August) Research services to investigate how changing driver training in the Queensland licensing system would affect road safety. Awarded by Queensland Department of Transport and Main Roads.</li> <li>• Rakotonirainy, A., <b>Filtness, A. J*</b>, Larue, G., &amp; Schramm, A. (2013, July) Ability to absorb information from electronic and static signs (Austroads NT1782). Partnership program contract with ARRB. Awarded by ARRB.</li> <li>• Freeman, J., <b>Filtness, A. J</b>, Armstrong, K., Sheehan, M. &amp; Fleiter, J. (2013, February) Options for rehabilitation in alcohol interlock programs (SS1755). Awarded by Austroads.</li> </ul> |

- Rudin-Brown, C. M., **Fitness, A. J.**, Lenné, M. G., & Young, K. L. (2011, July) Operational Pilot of electronic work diaries (EWD) and speed monitoring systems Stage 1. Awarded by Transport Certification Australia Ltd. (TCA)
- Rudin-Brown, C. M, **Fitness, A. J.**, Lenné, M. G., Logan, D., & Young, K.L. (2011, April) TCA Electronic Work Diaries – Operational Pilot. Awarded by TCA
- Competitive Internal University Grants • **Fitness A.J.**, Smith S (2015, May) Caffeine and rear-end crashes in urban driving; developing a new test paradigm. Awarded by Queensland University of Technology Institute of Health and Biomedical Innovation.
- Freeman J., Larue G., **Fitness A.J.**, Delhomme P (2015, May) Good intention but bad judgement? An intelligent transport system study to examine objective and subjective driving performance. Awarded by Queensland University of Technology Institute of Health and Biomedical Innovation
- Naweed, A, **Fitness, A.J.** (2014, Oct) Human factors in Transport Exchange Program: Fatigue and SPAD risk. Awarded by Health Collaborative Research Network (CRN) Universtiy Exchange Program.
- **Fitness, A. J.** (2014, Aug) Understanding sleepy drivers: towards development of a targeted intervention. Mentors: Smith, S., & Anund, A. Awarded by Queensland University of Technology, Institute of Health and Biomedical Innovation Early Career Research award scheme.
- **Fitness, A. J.**, Davey J., & Beanland, V. (2013, August) Proof of concept investigation into time of day effects on attentional blink. Awarded by Queensland University of Technology Institute of Health and Biomedical Innovation.

\*Project Manager

## Publications and Research Output

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| Peer reviewed Journal Articles | <ol style="list-style-type: none"> <li>1. Maynard, S., Miller, K., &amp; <b>Fitness, A.</b>, (2022) Keeping the service running: Examining working relationships and workload of London bus network iBus controllers. <i>Applied Ergonomics</i>, 98, 103577</li> <li>2. Morris, A. P., Haworth, N., <b>Fitness, A.</b>, Nguatem, D. P. A., Brown, L., Rakotonirainy, A., &amp; Glaser, S. (2021). Autonomous Vehicles and Vulnerable Road-Users—Important Considerations and Requirements Based on Crash Data from Two Countries. <i>Behavioral Sciences</i>, 11(7), 101.</li> <li>3. Forsman, A., Anund, A., Skyving, M, <b>Fitness, A.J</b> (2021). Injury crashes and relationship with disease causing excessive day time sleepiness. <i>Traffic Injury Prevention</i>, 22(4), 272-277</li> <li>4. Michelaraki E., Katrakaza C., Yannia, G., <b>Fitness, A.J.</b>, Talbot R., Hancox, G., Pilkington-Cheney F., Brijs K., Ross, V., Dirix, H., Neven A., Paul, R., Brijs, T., Fortsakis, P., Frantzola E.K., Taveira R (2021). Post-trip Safety Interventions: State of the art challenges and practical implications. <i>Journal of Safety Research</i>.</li> <li>5. Walker, G., Mendes, L. M. N., Lenne, M., Young, K., Stevens, N., Read, G., Beanland V., <b>Fitness, A.</b>, Stanton, N., &amp; Salmon, P. (2021) Modelling driver decision-making at railway level crossings using the abstraction decomposition space. <i>Cognition, Technology &amp; Work</i>, 1-13.</li> <li>6. Maynard, S., <b>Fitness, A.</b>, Miller, K., &amp; Pilkington-Cheney, F. (2021). Bus driver fatigue: A qualitative study of drivers in London. <i>Applied Ergonomics</i>, 92, 103309.</li> <li>7. <b>Fitness, A. J.</b>, Beanland, V., Miller, K. A., Larue, G. S., &amp; Hawkins, A. (2020). Sleep loss and change detection in simulated driving. <i>Chronobiology International</i></li> <li>8. Pilkington-Cheney, F., <b>Fitness, A. J.</b>, &amp; Haslam, C. (2020). A qualitative study exploring how city bus drivers manage sleepiness and fatigue. <i>Chronobiology international</i>.</li> <li>9. Maynard, S., Jones, W., <b>Fitness, A.</b>, Gibb, A., &amp; Haslam, R. (2021) Going underground: fatigue and sleepiness in tunnelling operations. <i>Applied Ergonomics</i>, 90, 103237</li> <li>10. Miller, K. A., <b>Fitness, A. J.</b>, Anund, A., Maynard, S. E., &amp; Pilkington-Cheney, F. (2020). Contributory factors to sleepiness amongst London bus drivers. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i>, 73, 415-424.</li> <li>11. <b>Fitness, A.J</b> , Hickman, J, Mabry, J.E, Glenn, , Mao H, Camden, M, Hanowski, R.J (2020). Associations between high caffeine consumption, driving safety indicators, sleep and health behaviours in truck drivers. <i>Safety Science</i>, 126.</li> </ol> |
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12. Shenfield, L., Beanland, V., **Filtness, A.**, & Apthorp, D. (2020). The impact of sleep loss on sustained and transient attention: an EEG study. *PeerJ*, 8, e8960.
  13. Pilkington-Cheney, F., **Filtness, A.J.**, Jones, W., Maynard, S., Gibb, A.G.F., Haslam, R. (2020) Biomathematical modelling for fatigue management in construction. *Proceedings of the Institution of Civil Engineers – Civil Engineering*. March, 1-6.
  14. Pilkington-Cheney, F., **Filtness, A.J.**, Haslam C. (2019) Sleepiness, shift work and sleep related road crashes. *Journal of Personal Injury Law*. Issue 4. 231-238.
  15. Samuel, O., Walker, G., Salmon, P., **Filtness, A.**, Stevens, N., Mulvihill, C., Payne S & Stanton, N. (2019). Riding the emotional roller-coaster: Using the circumplex model of affect to model motorcycle riders' emotional state-changes at intersections. *Transportation Research Part F: Traffic Psychology and Behaviour*, 66, 139-150.
  16. Bates, L., Hawkins, A., **Filtness, A.** & Larue, G. (2019). Simulators, driver education and disadvantaged groups: A scoping review, *Journal of the Australasian College of Road Safety*
  17. Rodwell, D., Hawkins, A., Haworth, N., Larue, G., Bates, L., & **Filtness, A.** (2019). What do driver educators and young drivers think about driving simulators? A qualitative draw-and-talk study. *Transportation Research Part F*, 62:282-293.
  18. Papadimitriou, E., **Filtness, A.J.**, Theofilatos, A., Ziakopoulos, A., Quigle, C & Yannis, G. (2019). Reviewing and ranking of crash risk factors related to the road infrastructure. *Accident analysis and prevention*, 125, 85-97.
  19. Bates, L., Hawkins, A., Rodwell, D., Anderson, L., Watson, B., **Filtness, A. J.**, & Larue, G. S. (2019). The effect of psychosocial factors on perceptions of driver education using the goals for driver education framework. *Transportation research part F: traffic psychology and behaviour*, 66, 151-161.
  20. Salmon, P., Read, G., Beanland, V., Thompson, J., **Filtness, A.**, Hulme, A., McClure R & Johnston, I. (2019) Bad behaviour or societal failure? Perceptions of the factors contributing to drivers' engagement in the fatal five driving behaviours. *Applied Ergonomics*, 74, 162-171
  21. Pérez, K., Weijermars, W., Bos, N., **Filtness, A.J.**, Bauer, R., Johannsen, H., Nuyttens, N., Pascal, L., Thomas, P., Olabarria, M. (2019) Implications of estimating road traffic serious injuries from hospital data. *Accident Analysis and Prevention* 130,125-135.
  22. Kunze, A., Summerskill, S. J., Marshall, R., & **Filtness, A. J.** (2019). Function-Specific Uncertainty Communication in Automated Driving. *International Journal of Mobile Human Computer Interaction (IJMHCI)*, 11(2), 75-97.
  23. Martensen, H., Diependaele, K., Daniels, S., Van den Berghe, W., Papadimitriou, E., Yannis, G., Van Schagen, I., Weijermars, W., Wihnen W., **Filtness, A.**, Talbot, R., Thomas P., Machata, K., Aigner-Breuss, E., Kaiser, S., Hermitte, T., Thomson, R. & Elvik, R (2018). The European road safety decision support system on risks and measures. *Accident Analysis & Prevention*.
  24. Kunze, A., Summerskill, S. J., Marshall, R., & **Filtness, A. J.** (2018). Automation Transparency: Implications of Uncertainty Communication for Human-Automation Interaction and Interfaces. *Ergonomics*, 66(3) 345-260.
  25. Rodwell, D., Hawkins, A., Haworth, N., Larue, G., Bates, L., & **Filtness, A.** (2018) A mixed-methods study of driver education informed by the Goals for Driver Education: Do educators and young drivers agree on what was taught?, *Safety Science*, 108, 140-148.
  26. Weijermars, W., Bos, N., Schoeters, A., Meunier J., Nuyttens N., Dupont, E., Machata K., Bauer R., Perez K., Martin, J., Johansson H., Filtness, A., Brown., Thomas P (2018) Serious road traffic injuries in Europe, Lessons from the EU research project SafetyCube. *Transportation Research Record*.
  27. Larue, G., **Filtness, A.J.**, Wood, J., Demmel, S., Watling, C., Naweed, A., Rakotonirainy, A (2018) Is it safe to cross? Identification of trains and their approach speed at level crossings. *Safety Science*, 103, 33-42.
  28. Weijermars, W., Bos, N., **Filtness, A.J.**, Brown, L., Bauer, R., Dupont, E., Martin, J.L., Perez, K., Thomas, P. (2018). Burden of injury of serious road injuries in six EU countries. *Accident Analysis and Prevention*, 111, 184-192.
  29. **Filtness A.J.**, Beanland V., Sleep loss and change detection in driving scenes. (2018) *Transportation Research Part F*. 57, 10-22
  30. Beanland, V., Salmon, P., **Filtness, A.J.**, Lenné M.G, Stanton, N. (2017) To stop or not to stop: Contrasting compliant and non-compliant driver behaviour at rural rail level crossings. *Accident Analysis and Prevention*, 108, 209-219.

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31. Watson, A., Freeman, J., Imberger, K., **Filtness, A.J.**, Wilson, H., Healy, D., Cavallo, A (2017) The effects of licence disqualification on drink-drivers: is it the same for everyone?. *Accident Analysis and Prevention*, 107, 40-47.
  32. **Filtness A.J.**, Larue G., Schramm A., Fuller J., Rakotonirainy A., Han C., Cairney P. (2017) Safety implications of co-locating road signs: a driving simulator investigation. *Transportation Research Part F*, 47, 187-198
  33. Cox J., Beanland V., **Filtness A.J.** (2017) Risk and Safety perception on urban and rural roads: Effects of environmental features, driver age and risk sensitivity. *Traffic Injury Prevention*, 18 (7), 703-710.
  34. Beanland V., **Filtness A.J.**, Jeans R. (2017) Change detection in urban and rural driving scenes: Effects of change target and safety relevance on change blindness. *Accident Analysis and Prevention*, 100, 111-122.
  35. **Filtness, A. J.**, Armstrong K., Watson A., Simth S.S. (2017) Sleep-related vehicle crashes on low speed roads. *Accident Analysis and Prevention*, 99 Part A, 279-286.
  36. **Filtness, A.J.**, Naweed, A. (2017) Causes, consequences and countermeasures to driver sleepiness in the rail industry. *Applied Ergonomics*, 60, 12-21.
  37. **Filtness, A. J.**, Armstrong K., Watson A., Simth S.S. (2017) Sleep-related crash characteristics: Implications for applying a fatigue definition to crash reports. *Accident Analysis and Prevention*, 99, Part B, 440-444.
  38. Hawkins, A., **Filtness, A.J.** (2017) Driver sleepiness on YouTube: A content analysis. *Accident Analysis and Prevention*, 99, Part B, 459-464.
  39. Anund, A., Ihstrom, J., Fors C., Kecklund, G., **Filtness, A.J.** (2016) Factors associated with self-reported driver sleepiness in city bus drivers. *Industrial Health*, 54(4), 337-346.
  40. Stefanova, T., Burkardt, J-M., **Filtness, A.J.**, Wullems, C., Rakotonirainy, A., Delhomme, P. (2015) Systems-based approach to investigate unsafe pedestrian behaviour at level crossings. *Accident Analysis and Prevention*, 81, 167-186
  41. Cain, S.W., **Filtness A.J.**, Phillips, C., Anderson, C. (2015) Enhanced preference for high fat foods following a simulated night shift. *Scandinavian Journal of Work, Environment and Health*. 41(3), 288-93
  42. **Filtness A.J.**, Goode N., Cook R. (2014) Causal factors of hot air ballooning incidents: identification, frequency and potential impact. *Aviation, Space and Environmental Medicine*, 85(12), 1190-1198.
  43. **Filtness, A. J.**, Mackenzie, J., Armstrong K. (2014). Longitudinal change in sleep and daytime sleepiness in postpartum women. *PLOS ONE*, 9 (7), e103513.
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46. **Filtness A. J.**, Rudin-Brown C. M., Allen A., Mulvihill C., Lenné M. G. (2011, November). Investigation of zero BAC for all motorcycle riders in Queensland. Simulator and balance studies report. Report to the Queensland Department of Transport & Main Roads. Melbourne: MUARC.
47. **Filtness A. J.**, Rudin-Brown C. M., Young K. L. (2011, December). Operational pilot of electronic work diaries (EWDs). Report on telephone interviews with drivers, transport operators and EWD providers. Report to TCA. Melbourne: MUARC.
48. Young K. L., **Filtness A. J.**, Rudin-Brown C. M. (2011, December). Operational pilot of electronic work diaries (EWDs). Report on enforcement officer focus groups. Report to TCA. Melbourne: MUARC.

Conference Presentations (peer reviewed abstracts)

1. **Filtness A.J.**, Rabot, R., Brijs, K., Ross, V., Brijs, R (accepted) IDreams: Using theory to define a safety tolerance zone. Paper to be presented at the International Conference on Traffic and Transport Psychology. Gothenburg, Sweden.
2. Pilkington-Cheney, F., **Filtness, A.J.**, Haslam, C (accepted) Sleepiness countermeasure use and implications for driving. Paper to be presented at the International Conference on Traffic and Transport Psychology. Gothenburg, Sweden
3. **Filtness A.J.**, Jones, W., Maynard, S., Pilkington-Cheney, F., Haslam, R., Gibb, A., Stuttard, N. (accepted). Fatigue in tunnelling operations: A qualitative scoping study. Paper to be presented at 11<sup>th</sup> international conference on Managing Fatigue. Freemantle, Australia.
4. **Filtness A.J.**, Anund A., Maynard S., Miller K., Pilkington-Cheney F., Dahlman A., Ihlström J (accepted). Driver Sleepiness amongst city bus drivers. Paper to be presented at 11<sup>th</sup> international conference on Managing Fatigue. Freemantle, Australia.
5. **Filtness A.J.**, Anund A., Maynard S., Miller K., Pilkington-Cheney F., Dahlman A., Ihlström J (2019) Self-reported driver sleepiness in London bus drivers. Paper presented at 24<sup>th</sup> International symposium on shiftwork and working time. 9-13 Sept Coeur D'Alene, Idaho, USA.
6. **Filtness A.J.**, Pilkington-Cheney, F., Jones, W., Stuttard, N., Maynard, S., Haslam, R., Gibb, A., (2019) Biomathematical modelling for shift planning in the tunnelling industry. . Paper

presented at 24<sup>th</sup> International symposium on shiftwork and working time. 9-13 Sept Coeur D'Alene, Idaho, USA.

7. Pilkington-Cheney F., **Filtness, A.J.**, Haslam, C., Maynard, S. A (2019) Qualitative investigation into the use of sleepiness countermeasures in London city bus drivers. Paper presented at 24<sup>th</sup> International symposium on shiftwork and working time. 9-13 Sept Coeur D'Alene, Idaho, USA.
8. Anund A., **Filtness A.J.**, Miller K., Dahlman A., Ihlström J., Maynard S., Pilkington-Cheney F. (2019) City bus drivers' fatigue an explorative study among city bus drivers in London. Paper presented at 24<sup>th</sup> International symposium on shiftwork and working time. 9-13 Sept Coeur D'Alene, Idaho, USA.
9. Dahlman A., Anund A., **Filtness A.J.**, Ihlström J., Miller K., Maynard S., Pilkington-Cheney F. (2019) Sleep patterns in relation to work schedules in London city bus drivers. Paper presented at 24<sup>th</sup> International symposium on shiftwork and working time. 9-13 Sept Coeur D'Alene, Idaho, USA.
10. Rodwell, D., Hawkins, A., Bates, L., Larue, G., Haworth, N. & **Filtness, A.** (2017). Mismatches between trainee and educator perceptions regarding the use and value of driving simulators. 2017 Australasian Road Safety Conference, 10 – 12 October, Perth.
11. Hawkins, A., Rodwell, D., Bates, L., Larue, G. & **Filtness, A.** (2017). Developing a technology based driver education intervention: theory and practice, Australasian Road Safety Conference, Perth, 10-12 October.
12. Bauer, R., Pérez, K., Weijermars, W., Bos, N., **Filtness, A.J.**, Johannsen, H., Pascal, L., Nuyttens, N., Olabarria, M. Measuring the severity of road injuries in the EU, European Journal of Public Health, Volume 27, Issue suppl\_3, 1 November 2017
13. **Filtness A.J.**, Talbot R., Thomas P., Aigner-Breuss E., Kaiser S., Martensen H., Papadimitriou E. (2017, Mar). Obstructive sleep apnoea and crash risk: Case study results within the development of the European road safety Decision Support System. Paper to be presented at 10<sup>th</sup> international conference on Managing Fatigue. San Diego, USA. Paper to be presented at 10<sup>th</sup> international conference on Managing Fatigue. San Diego, USA.
14. **Filtness A.J.**, Beanland V., Larue G., Hawkins A (2017, Mar). Sleep loss and change detection: a driving simulator study. Paper to be presented at 10<sup>th</sup> international conference on Managing Fatigue. San Diego, USA.
15. **Filtness A.J.**, Beanland, V., Jeans R. (2016, Feb). Sleep-Related impairment at detecting changes in rural driving scenes. Paper presented at SomnoSafe. Brussels, Belgium.
16. Beanland, V. C., Salmon, P., Young, K. L., **Filtness, A.**, Read, G. J. M., Lenne, M. G., & Stanton, N. A. (2016). Differences in drivers' perception and interactions with boom-controlled rail level crossings in urban versus rural environments. In *Australasian College of Road Safety Conference 2016: Agility, Innovation, IMPACT!*.
17. **Filtness A.J.**, Naweed A (2015, Nov). Fatigue in the rail industry: The driver's perspective. Paper presented at the 4<sup>th</sup> International Conference on Driver Distraction and Inattention. Sydney, Australia.
18. Beanland V., **Filtness A.J.**, Jeans R. (2015, Nov). Effects of sleep loss on change detection in urban and rural driving scenes. Paper presented at the 4<sup>th</sup> International Conference on Driver Distraction and Inattention. Sydney, Australia.
19. **Filtness A.J.**, Armstrong K., Watson A., Smith S. (2015, March 23-26). Sleep-related crashes in high speed environments. Presented at 9th International Conference on Managing Fatigue. Fremantle, Australia.
20. Freeman J., Kiata-Holland E., **Filtness A.J.**, Palk G., Armstrong K., Davey J. (2015 March 17-20). Directions for the future: A Comparative analysis of emerging international drug driving policies. Presentation at the 7th Australasian Drug and Alcohol Strategy Conference. Brisbane, Australia.
21. Lenné, M., Salmon P.M., Beanland V., Stanton N.A., **Filtness A. J.** (2014, Nov) The application of decision-making paradigms to map real-world driver decision-making at rail level crossings. Oral presentation, 11<sup>th</sup> International Symposium of the Australian Aviation Psychology Association, Melbourne, Australia. **Recipient of Best Paper Award.**
22. **Filtness A.J.**, Beanland V. (2014, Sept). Sleep restriction impairs vigilance but not temporal attention. Poster presentation at the European Sleep Research Society meeting, Tallinn, Estonia.

23. **Filtness A.J.**, Armstrong K., Watson A. (2014, Sept) Sleep related crashes in urban, low speed environments. Poster presentation at the European Sleep Research Society meeting, Tallinn, Estonia.
24. Goode N., Salmon P.M., Lenné M.G., Walker G. **Filtness A. J.** (2014, July). An analysis of cyclist situation awareness during near collisions with motor vehicles: failure of the road or road user? Oral presentation, International Conference of Applied Psychology, Paris, France.
25. **Filtness A.J.**, Mackenzie J., Armstrong K. (2013, Oct). Hush-a-by mummy: interactions between co-sleeping and maternal sleep disturbance. Poster presentation, Australian Sleep Association Conference, Brisbane, Australia
26. Lenné M. G., Beanland V., Salmon P. M., **Filtness A. J.**, Stanton N. A., Triggs, T. J. (2012). On-road assessment of driver behaviour at regional highway-rail grade crossings. In Proceedings of the 4th International Conference on Applied Human Factors and Ergonomics. San Francisco, USA.
27. **Filtness A. J.**, Reyner L. A., Horne J. A. (2011, Oct). One night CPAP withdrawal impairs performance at a driving simulator task faster than sleep restriction to 5 hours with treatment in OSA patients. Poster presentation at the World Sleep Conference, Kyoto, Japan.
28. **Filtness A. J.**, Reyner L. A., Horne, J. A. (2011, Oct). Prevalence of risk factors for undiagnosed obstructive sleep apnoea is high in truck drivers on UK roads. Poster presentation at the World Sleep Conference, Kyoto, Japan.
29. **Filtness A. J.**, Reyner, L. A. (2010, Sept). Is the two hour recommended maximum driving time appropriate for both healthy older and treated obstructive sleep apnoea drivers? Oral presentation at the European Sleep Research Society meeting, Lisbon, Portugal.
30. **Filtness A. J.**, Reyner L. A. (2010, Sept). Continuous Positive Air Pressure treatment for Obstructive Sleep Apnoea patients: effects on sleep quality and quantity as measured by Actigraphy. Poster presentation at the European Sleep Research Society meeting, Lisbon, Portugal.
31. **Filtness A. J.**, Reyner, L. A. (2010, Sept). Driver sleepiness in younger and older participants. Paper presented at the British Sleep Society annual meeting, Cambridge, UK.
32. **Filtness A. J.**, Reyner L. A. (2010, June). Countermeasures to driver sleepiness: is the message getting through? Poster presentation at SLEEP meeting of the American Academy of Sleep Medicine and the Sleep Research Society, San Antonio, USA.
49. **Filtness A. J.**, Reyner, L. A. (2009, Sept). Sleep restriction increases driving risk in treated obstructive sleep apnoea patients. Paper presented at the British Sleep Society annual meeting, Cambridge, UK.

Conference papers  
(non-peer review)

1. Papadimitriou E., Yannis G., Theofilatos A., Thomas P., Filtness A.J., Martensen H., Machatad K., Elvike R., Shingo Usamif D. (2016, Oct) Development of a road safety Decision Support System for road infrastructure. 1st European Road Infrastructure Congress. Leeds, UK.  
Thomas P., **Filtness A.J.**, Yannis G., Papadimitriou E., Theofilatos A., Martensen H., Diependaele K. (2016, June) Developing the european Road Safety Decision Support system. Expert Symposium on Accident Research. Hannover, Germany.

Magazine  
Articles

1. Jones, W., **Filtness, A. J.**, Haslam, R., Gibb, A. G., & Stuttard, N. (2019). Waking up to fatigue. Tunnelling Journal 28, TGS Media Ltd  
[https://repository.lboro.ac.uk/articles/Waking\\_up\\_to\\_fatigue/9352931](https://repository.lboro.ac.uk/articles/Waking_up_to_fatigue/9352931)
2. Naweed, A., & **Filtness, A.J.** (2015). [Fatigue & sleepiness: Complex bedfellows](#) [Safety]. Track & Signal, 19(1), 60-61. Circulation 7,000
3. **Filtness A.J.**, Goode N., Cook R, Eighani G (2015) What causes hot air balloon accidents? Aerostat, Journal of the British Balloon and Airship Club. 46(6), 16-17.
4. **Filtness A.J.**, Goode N., Cook R, Eighani G (2015) What causes hot air balloon accidents? Ballooning, Journal of the Ballooning Federation of America. Sept/Oct. 2015, 48(4), 30-32.
5. **Filtness A.J.**, Goode N., Cook R, Eighani G (2015) [Prepare and prevent, don't repair and repent: Causal factors of hot air ballooning incidents](#). Aeronotes, the official journal of the Australian Ballooning Federation 37(2), 8-10. ISSN:1036-8264

6. **Filtness A.J.**, Goode N., Cook R, Eighani G (2015) When should ballooning incidents be reported? *Aeronotes*, the official journal of the Australian Ballooning Federation 37(3), 6-7. ISSN:1036-8264

## Invited Speaker

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- 2020 • **Filtness, A.J.**, (2020, October) Driver Fatigue: what we know and what we don't know. Ireland Road Safety Authority Annual Academic Lecture.
- 2019 • **Filtness, A.J.**, (2019, Nov) Bus driver fatigue Tfl Bus Safety Summit  
 • **Filtness, A.J.**, (2019, Sept) Bus driver fatigue Confederation of Passenger Transport UK Road Operations Committee meeting.
- 2017 • Thomas P., **Filtness A.J.** (2017, Feb) SafetyCube project. Department for Transport, UK.
- 2016 • **Filtness A.J.** (2016, Oct) SafetyCube project. Queensland Road Safety Research Network. Queensland University of Technology, Brisbane, Australia.
- 2015 • **Filtness A. J.** (2015, July) Understanding Driver Sleepiness: characteristics, causes and cultural acceptance. Transport Research Laboratory, Wokingham, UK.  
 • **Filtness A.J.**, Goode N., Cook R. (2015, June) Causal factors of hot air ballooning incidents and incident reporting culture Sports Aviation Safety Forum of the Civil Aviation Safety Authority. Sydney, Australia  
 • **Filtness A.J.**, (2015, June) Older vs Young drivers and the effect of sleep restriction. Queensland University of Technology Community of former Staff Alumni Group.  
 • **Filtness A. J.** (2015, Feb) Understanding Driver Sleepiness: characteristics, causes and cultural acceptance. Central Queensland University, Appleton Institute, Adelaide, Australia.
- 2013 • **Filtness A. J.** (2013, Oct) Obstructive Sleep Apnoea and Daytime Driver Sleepiness. Nottingham University Accident Research Unit, UK.  
 • **Filtness A. J.** (2013, Oct) Obstructive Sleep Apnoea and Daytime Driver Sleepiness. Leeds University Institute of Transport Studies, UK.  
 • **Filtness A. J.** (2013, Sept) Obstructive Sleep Apnoea and Daytime Driver Sleepiness. Swedish Road Transport Institute (VTI), Linköping, Sweden.  
 • **Filtness A.J.**, Goode N., Cook R. (2013, June) An investigation into the factors contributing to hot air balloon incidents. Sports Aviation Safety Forum of the Civil Aviation Safety Authority. Sydney, Australia.  
 • **Filtness A. J.** (2013, April) Obstructive Sleep Apnoea and Daytime Driver Sleepiness. Woolcock Institute of Medical Research, Sydney, Australia.
- 2012 • **Filtness A.J.** (2012, Oct) Sleep – The most important thing you will do today. Monash University Mental Health week. Melbourne, Australia.
- 2010 • **Filtness A.J.**, Reyner L.A. (2010, April) Obstructive sleep apnoea and driving. Oral presentation at Leicester Sleep Apnoea Patients Association (LSAPA) annual general meeting. Leicester, UK.

## Example Media and Publicity

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- Television • Lofthouse A and Downes M (Presenters). 2015. Channel 9, Brisbane, National Nine News, 16 Oct 6:30PM. Topic: Road safety experts are learning why sleepy drivers crash through YouTube videos.  
 • Wilding, R (Presenter). 2008. BBC One's The One Show (national). Topic: Obstructive sleep apnoea and driver tiredness.  
 • Ashby, M (Presenter). 2007. BBC One's Inside Out East Midlands (regional). Topic: Sleepiness in young drivers.
- Radio • 98five Sonshine FM (Western Australia). 2014, August 5. [Radio interview with Polly and Moro]. Breakfast show. Topic: New mums still excessively sleepy.  
 • ABC Brisbane (Queensland). 2015, September 15 (Radio interview with Emma Griffiths). Drive show. Topic: Stop and revive those tired eyes <http://blogs.abc.net.au/queensland/2015/09/stop-and-revive-those-tired-eyes.html>



- Podcast • Att. S1 Ep6. Tired to death – why we need to talk about sleep and fatigue  
<https://activetrainingteam.co.uk/podcasts/view/6>
- Online News Stories • Caffeine consumption in truck drivers 2020  
 Commercial motor <https://www.commercialmotor.com/news/product/warning-issued-over-high-caffeine-consumption-truck-drivers>  
 Fleet owner <https://www.fleetowner.com/news/article/21126403/truck-drivers-who-drink-more-caffeine-are-in-more-crashes-study-says>
- Driver sleepiness on YouTube, 2015  
 Central Telegraph: <http://www.centraltelegraph.com.au/news/videos-show-sleep-drivers-dicing-death/2809353/>  
 Science Daily: <http://www.sciencedaily.com/releases/2015/10/151020103837.htm>
- Driver simulator research. 2015 Brisbane times.  
<http://www.brisbanetimes.com.au/queensland/why-so-angry-researchers-try-to-get-in-the-minds-of-young-drivers-20151002-gk09bp.html>
- Sleep related eye symptoms. 2015  
 Medical xpress <http://medicalxpress.com/news/2015-09-sleepy.html>  
 Health canal <http://www.healthcanal.com/disorders-conditions/sleep/66915-do-you-know-the-signs-of-being-too-sleepy-to-drive-cars-q-study.html>
- New mums excessively tired at four months. 2014,  
 The Australian: <http://www.theaustralian.com.au/news/latest-news/new-mums-excessively-tired-at-four-months/story-fn3dxiwe-1227010136040>  
 The Herald sun: <http://www.heraldsun.com.au/news/breaking-news/new-mums-excessively-tired-at-four-months/story-fni0xqi4-1227010136040>  
 The Daily Telegraph: <http://www.dailytelegraph.com.au/news/breaking-news/new-mums-excessively-tired-at-four-months/story-fni0xqi3-1227010136040>  
 The Courier Mail: <http://www.couriermail.com.au/news/breaking-news/new-mums-excessively-tired-at-four-months/story-fnihsfrf-1227010136040>  
 Daily Mail: <http://www.mailonsunday.co.uk/health/article-2715346/Why-new-mothers-shouldnt-rush-work-Many-exhausted-four-months-giving-birth.html>  
 The New Zealand Herald:  
[http://www.nzherald.co.nz/lifestyle/news/article.cfm?c\\_id=6&objectid=11304206](http://www.nzherald.co.nz/lifestyle/news/article.cfm?c_id=6&objectid=11304206)
- Young male drivers more vulnerable than older men to sleepiness.  
 ABC news:  
<http://www.abc.net.au/science/articles/2012/02/29/3441594.htm?site=science/memory&topic=latest>
- University Media Release • Future Transport, ask the expert Loughborough University  
<https://www.youtube.com/watch?v=KMBvGzg-q9c&feature=youtu.be>
- More caffeine is not the answer 2020. <https://www.lboro.ac.uk/media-centre/press-releases/2020/march/caffeine-not-answer-for-tired-lorry-drivers/>
- Loughborough’s lifesaving road safety research given royal recognition 2019.  
<https://www.lboro.ac.uk/media-centre/press-releases/2019/december/road-safety-award-prince-michael-of-kent/>
- New measures to tackle bus driver fatigue. 2019. <https://www.lboro.ac.uk/media-centre/press-releases/2019/august/bus-driver-fatigue-research/>