



Annual Report 2014

Transport and Road Safety (TARS) Research

Never Stand Still

UNSW Science

School of Aviation

... advancing transport and road safety through high quality research



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Acknowledgments

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Back cover photo: Courtesy of Crashlab and Professor Raphael Grzebieta.

Director's Report

Transport safety, especially on the road is a continuing problem in Australia. Where we had once been one of the top performing countries in the OECD, we have fallen to the lower half of the league table of road fatality rates per 100,000 population (National Road Safety Strategy 2011-2020). Now, more than ever, we need good research in road safety. The objective of our research is to help to provide high quality research evidence to improve road and transport safety for Australia and by so doing, reduce one of the major causes of premature death and injury in Australians under 45 years of age. This year was the first since 1999 that we have not had core funding from a NSW government source. This has presented some challenges but has also provided some new opportunities for us to do some larger projects on big-picture transport safety issues.

A major highlight of 2014 is the official commencement of Australia's Naturalistic Driving study (ANDS) which TARS Research is leading. This \$4 million project involves four universities (UNSW, Adelaide, and Monash and QUT) and Virginia Tech in the USA. The project is funded by the Australian Research Council, four state governments (NSW, Victoria, South Australia and Western Australia) and industry (Hyundai and NRMA). The objective of the study is to explore everyday driving behaviour including how drivers deal with sudden events, interact with other road users like pedestrians and cyclists and manage regular driving experiences like speed, fatigue and distractions. This exciting project will be the largest study of its type in Australia and should provide the firm evidence-base needed for developing good road safety policy and practice.

A second highlight for TARS Research was the completion of major \$1.12 million study into the rollover safety of off-road Quad bikes and Side by Side Vehicles (SSVs). This study was commissioned by the Australian Federal and State Government Heads of Work Safety Authorities (HWSA) and included also the Australian Competition and Consumer Commission (ACCC) and funded by the NSW WorkCover Authority on behalf of HWSA. The aim of this 'world's first' study was to develop performance static stability, dynamic handling and rollover crashworthiness test protocols to rate the rollover safety performance of Quad bikes and SSVs for consumers. The rating system produced puts Safety Stars on Quads and SSVs. This will provide invaluable information to the public about the safest All-Terrain vehicles to purchase and to manufacturers about how their vehicles might be modified to make them safer.

Aside from these Australian and world-first research projects, TARS Research has had another great year. Due to the strong efforts of TARS Research staff over the last three years, our research outputs have increased by around 70 percent, especially in peer-reviewed journal papers. We have also been highly successful in obtaining research funding; with totals remaining at around \$3 million per year, and a continuing strong showing in peer-reviewed competitive grants. Significantly, most of our funding comes from industry sources and is directed at research that will help to re-establish Australia as a world leader in road safety.

As a research centre with a strong applied focus, we have continued our activities in community engagement and encouraging debate on transport and road safety issues. TARS researchers were, again, very active in engaging media to promote our research findings and to highlight important road safety issues and messages where it was useful or important to do so. Many of our researchers play an active role on advisory and decision-making bodies for state, federal and international policy-making bodies; another important way of making sure that the knowledge generated by our research and that of others is getting to the places that it can be put into practice.

Our research success is due to the combined efforts of all of our staff. Our research continues to benefit from the multidisciplinary approach that we are able to bring to bear and the strong collaborations that we have built and continue to build with other research groups. This year one of our senior researchers, Prof Michael Regan, took an opportunity to move into a more industry-focussed position. We will continue to work together on the ANDS project and others. I would like to express my gratitude to all of our research staff for their contributions to ensuring that TARS Research is continuing to grow and to make a contribution to reducing road fatalities and injuries for all Australians.

Prof Ann Williamson, PhD

Director

Transport and Road Safety (TARS) Research, School of Aviation

Reference

Australian Transport Council (2011). National Road Safety Strategy 2011-2020.

About the Centre

Who We Are

Transport and Road Safety (TARS) Research is a private and publically funded research group in the School of Aviation at UNSW Australia. Our objectives are:

- Advancing transport and road safety through high quality research;
- Building research capacity; and
- Translating the results of research into policy and practice.

Background

In 1999, the Health Administration Corporation (HAC), Motor Accidents Authority of NSW (MAA), Roads and Traffic Authority of NSW (RTA) and The University of New South Wales (UNSW) formed a collaboration to fund the NSW Injury Risk Management Centre (IRMRC). The collaboration was renewed by Deed of Agreement, after a review, in 2002 and 2008 for a further five year period in each case. The IRMRC Deed of Agreement was varied to allow the establishment of the Transport and Road Safety (TARS) Research group within the School of Aviation and the Falls Injury Prevention Group (FIPG) within Neuroscience Research Australia with oversight from the Director, IRMRC. The Deed of Variation (Variation) for each research group commenced on 1 December 2010 and expired on 30 November 2013.

TARS Research now continues as a self-funded Research Group in the School of Aviation.

Skills and Expertise

The philosophy of the TARS Research group is the safe system principle, commonly used in occupational health and safety. This requires a multi-disciplinary approach to road safety research and policy development, where researchers focus on Safer Roads, Safer Vehicles, and Safer People and their integration into a Safe System approach.

TARS Research staff has enormous depth of multidisciplinary expertise and experience, and very strong nationally and internationally recognised track records of expertise across the entire range of road and transport safety. TARS research is structured around the essential disciplines needed for an effective transport and road safety research centre: safety policy and systems, psychology, human factors, engineering and crashworthiness, information technology systems, biomechanics, biostatistics, epidemiology, and social sciences.

TARS Research has 12 research staff covering 24 areas detailed in **Researcher Profiles - Areas of Expertise**.

Strategic Directions

TARS Research is focused on the key areas of research, community engagement and capacity building. We aspire to do this through:

- **Research**
 - Undertake high-quality research that benefits society;
 - Be recognised as a peer in good standing with the world's best transport and road safety researchers;
 - To build on current leading performance and continue attracting ARC, NHMRC and industry funding for strategic and innovative research;
- **Community Engagement**
 - Translate fundamental science into new, evidence-based policy and practice;
 - Equip government and industry to contribute to NSW, Australia and the world;
 - Continue work towards the promotion of injury prevention measures, in a road environment, which supports the vision of zero fatalities and serious injuries within a Safe System approach;
- **Capacity Building**
 - To maintain and extend our position as Australia's leading research centre in terms of road safety research output per capita;
 - To be recognised as the research centre of choice for experts of seeking to undertake transport and road safety research;
 - To attract high calibre students seeking to undertake higher degrees in relevant areas;
 - To maintain and enhance an environment that promotes collaboration between the range of disciplines required to meet the research needs of the challenges faced;

Our Research

Overview

TARS Research funding is from grants from the Australian Research Council, the National Health & Medical Research Council and industry, as well as research funding from other government and non-government authorities in Australia and internationally.

We also have a strong and consistent history of value-adding financial support from the transport and insurance industries. Our research is independent and conducted without fear or favour. We take on some of the most difficult and persistent road and transport safety problems. Our record of research is recognised in Australia and abroad.

Research Resources

We use the world's best practice facilities and tools for transport and road safety research including:

- Car, train and aircraft simulators for assessment of operator performance;
- Computer simulation software and laboratory crash test facilities for simulating and reconstructing crashes, including vehicles crashworthiness and biomechanics injury mechanisms;
- Instrumented vehicles for driver performance studies and Naturalistic Driving Studies and instrumented aircraft for Naturalistic Flying Studies (under development);
- Video/photographic equipment for site investigations and audits; and access to equipment via NSW Roads & Maritime Services Crashlab for crash, stability, biomechanics and dynamic handling tests;
- Access to population-based information on Australian road and transport-related mortality including the National Coronial Information System (NCIS), injury morbidity and mortality data from police-reported crashes and third party compensation claims following trauma as well as hospital and Emergency Department (ED) data on road trauma in NSW.

Collaborating Organisations

Commonwealth Government

Australian Competition & Consumer Commission

Australian Research Council

Dementia Collaborative Research Centre

Department of Defence

National Health & Medical Research Council

National Heavy Vehicle Regulator

National Transport Commission

NSW Government

Motor Accidents Authority of NSW

NSW Roads & Maritime Services

Transport for NSW

WorkCover Authority of NSW

Other State and Territory Government

ACT Department of Justice and Community Safety
Motor Accident Commission SA
Office of Road Safety WA
Roads Corporation of Victoria (VicRoads)
Transport Accident Commission Victoria

Industry

ARRB Group
Australian Automobile Association
AustRoads Ltd
BHP Billiton Limited
Day of Difference Foundation
NRMA - ACT Road Safety Trust
NRMA Limited
Telethon Institute for Child Health Research
Transport Certification Australia Ltd
Trent Driving School
Youthsafe
Zurich Financial Services Australia

International

Accident Compensation Corporation NZ
Center for Injury Research
George Washington University
Korea Automobile Testing & Research Institute
Medical College of Wisconsin
Transit New Zealand
University of Bolton
Virginia Tech Transportation Institute

Australian Universities

Monash University
Queensland University of Technology
University of Adelaide
University of Queensland
University of Sydney
University of the Sunshine Coast

Prizes and Awards

Alan Welford Award of the Human Factors & Ergonomics Society of Australia

Rebecca Mitchell, Ann Williamson, Brett Molesworth & Amy Chung received the Alan Welford Award 2014 for the best peer reviewed paper on a human factors and ergonomics topic published in the previous calendar year:

Mitchell, R. J., Williamson, A. M., Molesworth, B., & Chung, A. Z. Q. (2014). A review of the use of human factors classification frameworks that identify causal factors for adverse events in the hospital setting. *Ergonomics*, 57(10), 1443-1472.
doi:10.1080/00140139.2014.933886

The Award was presented at the Human Factors & Ergonomics Society of Australia Annual Conference, Adelaide 2014.

Special Acknowledgement of Outstanding Achievement in Road Safety

On Wednesday, 12 November, 2014, two TARs researchers, Prof Raphael Grzebieta and Ms Lori Mooren, received special acknowledgement of their outstanding achievements in road safety by the Governor General, Sir Peter Cosgrove, at the Annual Awards Ceremony organised by the Australasian College of Road Safety (ACRS).



Photo:

Bottom left to right – Mr Lachlan McIntosh, Prof Mary Sheehan, His Excellency Sir Peter Cosgrove, Prof Narelle Haworth, Ms Lori Mooren. Top left to right – Prof Mark Stevenson, Mr David Healy, Prof Barry Watson, Mr Iain Cameron, Prof Raphael Grzebieta.

Acknowledgement:

Photo courtesy of Australasian Colleague of Road Safety.

Researcher Profiles

Areas of Expertise

Research Theme	Williamson	Grzebieta	Regan	Senserrick	Boufous	Hatfield	Mitchell	Bambach	Friswell	Mooren	Mongiardini	Wang
Active Transport (Cycling & Pedestrians)		x		x	XX	L		x				XX
Aviation Safety	L		L									
Child Safety	x					x	L					
Crash Investigation	XX	L	x			x		x				
Crash Reconstruction & Computer Modelling		XX						XX			L	
Distraction			L	x		XX						
Drug & Alcohol	x			x	L							
Fatigue	L	x		x		x			x			
Heavy Vehicles	XX	x			x				L	XX		
Indigenous Road Users				L			x					
Injury Surveillance & Data Linkage					XX		L	XX				XX
Intelligent Transport Systems			L	x								
Motorcycles		x	x	XX	x		x	L				
Naturalistic Driving Studies	x	x	L	x								
Novice Road Users	x		XX	L	x	XX	x					
Older Person Safety					L		XX					
Quad Bikes		L					x					
Rail Safety	XX		x						L			
Road Safety Barriers & Roadway Departure		L						XX			x	
Rollover		XX						L				
Safety Management Systems	L	XX				x	x			L		
Speeding		x	XX	x		x				L		
Trauma Services & Outcomes					x		L					
Work-Related Driving	XX		XX		x		x	x	L	XX		

Legend: (L: Theme Leader; XX: Strong expertise and track record; x: Possesses expertise and published in field)

Academic Staff



Prof Ann Williamson: has a PhD in behavioural science and has worked in government and academia in research and policy development in injury prevention for over 30 years. She has a national and international reputation for research in road and occupational safety. This is due in part to contributions to the fields of fatigue and human factors and safety, using innovative methods.



Prof Raphael Grzebieta: obtained his PhD in engineering focussing on crashworthiness. He has 28 years of research and professional experience in road safety, road and vehicle crashworthiness, and crash investigations and reconstruction. His work has influenced policy in the areas of motorcyclists impacting roadside barriers, installation of wire-rope barrier systems, roadside barrier crashworthiness, rollover crashworthiness, heavy vehicle safety, bicycle and cycling infrastructure safety, motorcycle safety and occupant crashworthiness.



Prof Mike Regan: is a psychologist with 25 years' experience in transportation safety, in Australia and in Europe - as a researcher, research manager and policy maker. He has specialist research expertise in driver distraction and inattention, human interaction with intelligent transport systems, use of instrumented vehicles and simulators to study driving behaviour and performance, and driver and rider training. He has authored more than 160 peer-reviewed publications, including 3 books, sits on the Editorial Boards of 5 peer-reviewed journals, and is currently the 25th President of the Human Factors and Ergonomics Society of Australia.



A/Prof Teresa Senserrick: has a PhD in Psychology with over 20 years of experience in health and safety research. She is nationally and internationally renowned for her expertise in driver education, training and licensing, with a particular focus on disadvantaged groups, including youth, Aboriginal, low socio-economic, rural and remote road users. Her research also contributes to increasing the safety of vulnerable road users, including pedestrians and cyclists and particularly novice motorcyclists.



Dr Julie Hatfield - Senior Research Fellow: has a PhD in Psychology and over 20 years' of experience of health and safety research. Her innovative behavioural research has contributed to understanding of risky driving behaviour, young driver safety, and safety of active transport (walking and cycling). She has extensive experience with conducting and communicating research to address policy needs.



Dr Rebecca Mitchell - Senior Research Fellow: is a psychologist and injury epidemiologist and has extensive experience in analysing large injury-related data collections and linked data collections to investigate the burden of injury. Her primary research interests include injury surveillance methods, data quality, evaluative tool development, trauma services research, and epidemiological and evaluation studies. She has a strong history of conducting research that has been used to inform public health policy and health service and injury prevention practice.



Dr Mike Bambach - Senior Research Fellow: has a PhD in Engineering and has substantial experience with regard to vehicle rollover crashes, motorcyclist impacts into roadside infrastructure, injury biomechanics and deformation of vehicle structures in collisions. He has recently also gained considerable experience in the 'Health data and epidemiology' stream, particularly with regard to the linking and epidemiological analyses of large administrative databases.



Dr Soufiane Boufous - Postdoctoral Research Fellow: has a Masters in Public Health and a PhD in Epidemiology. His research focuses on developing innovative methods to assess the burden and risk factors of injury and evaluate injury prevention programs in road safety. He has developed methods based on the use of data linkage to integrate relevant data systems and undertaken observational studies and randomised trials to examine risk factors of road trauma and assess the impact of preventive strategies.



Dr Mario Mongiardini - Research Fellow: has worked in the field of roadside safety barrier systems and complex finite element (FE) computer simulations of crash events for 10 years. He has specialised in both testing and simulating vehicle full-scale crash tests of roadside safety hardware. In particular, he has actively worked on the development of various vehicle and barrier FE models as well as preparation of the US standard for Verification and Validation (V&V) of numerical FE models for roadside safety barriers throughout the USA.



Dr Rena Friswell - Research Fellow: has worked as a behavioural scientist in road and occupational safety research for over 15 years, both in university and government organisations. Her primary research interest is driver fatigue, but she has also investigated aspects of driver distraction, fleet safety, repeat offending and the effects of public safety interventions. She has expertise across a range of methodological approaches for understanding road users (broad scale surveys, dataset analyses, and laboratory and workplace studies).



Dr Joanna Wang - Research Fellow: received her PhD in Statistics on robust statistical analysis of time series using heavy-tailed distributions via Bayesian computation methods and scale mixture density representation. Dr Wang has worked on analysis of health/injury data using various regression and structural time series models. Her current research focuses on the evaluation of mandatory cycling helmet laws in Australia and overseas and on developing a general statistical framework for evaluating the effect of road safety policy intervention on outcomes such as injury rates using dedicated statistical models.



Ms Lori Mooren - Senior Research Fellow: Lori has been working in road safety for 25 years. She was awarded a Fellowship in 2012 by the Australasian College of Road Safety for her outstanding achievements. Lori was Project Manager for the production of a Global Good Practice Manual on Speed Management and is a member of the UN Road Safety Collaboration, and co-chairs the Pillar 1, Road Safety Management Project. She has established a research program that aims to develop and test safety management systems and interventions to improve work related road safety, particularly in heavy vehicle transport operations.

Adjunct Appointees



Prof Soames Job: Soames is nationally and internationally road safety expert with 33 years of road safety experience. He is recognised for his achievements in road safety management, delivery, policy and research, and for noise effects research and policy. Soames brings a unique combination of skills in consulting, policy, road reviewing, regulation and legislation creation and management, and direct delivery of road safety programs and projects as well as recognised expertise and success in road safety research and evaluation, teaching, group leadership, and mass media messaging for behaviour change.



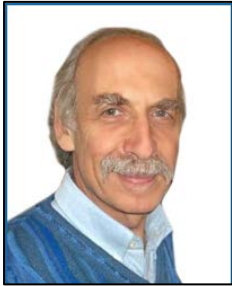
Prof Anne-Marie Feyer BA (Hons) PhD GAICD:

Dr Feyer is a national and internationally renowned expert on public health and occupational health and safety policy. Until 2010, Dr Feyer was as a senior partner at PricewaterhouseCoopers (PwC) where she established the Firm's National Health Advisory Practice. She was appointed to the Board of PwC's Global Health Research Institute and established PwC as a leading advisor in the health, disability and compensation arena.

Prior to joining PwC in 2001, Dr Feyer held academic appointments in both Australia and New Zealand. In her last academic post, she was Director and Professorial Research Fellow of the New Zealand Environmental and Occupational Health Research Centre at the University of Otago, Dunedin, which she established. This Centre was the first centre of excellence in research in environmental and occupational health in New Zealand.



Prof Bruce Simons-Morton: Dr Simons-Morton is both Associate Director for Prevention as well as Chief of the Health Behavior Branch of the Eunice Kennedy Shriver National Institute of Child Health and Human Development. He is also Chair of the Committee on Operator Education and Regulation of the Transportation Research Board (TRB; Board of the National Research Council and National Academies) in the United States; the peak international body for academics specialising in road safety.



A/Prof George Rechnitzer: has over 40 years of professional engineering experience, academic and research expertise, as well as extensive industry affiliations both nationally and internationally. He has expertise in forensic and safety engineering, road safety and workplace safety, accident investigation and collision reconstruction.

Performance Targets and Achievements

Publications

During 2014 TARS Research continued to achieve strong growth in peer-reviewed publications with further increases over previous years. A complete list of all research outputs is contained in **Appendix F**.

Research Income

During 2014 TARS experienced on-going success in attracting research income from a variety of sources. A more detailed list of projects is provided in **Appendix D**.

Engagement and Impact

Research Dissemination

By undertaking high-quality research that benefits society, TARS Research excels at translating fundamental science into new, evidence-based policy and practice. We are recognised as being amongst the world's best transport and road safety researchers, and play a crucial role in equipping government and industry to contribute to NSW, Australia and the world.

Seminar Series

TARS Research undertakes an active role in research dissemination and facilitating the translation of research into policy and practice. Our Seminar Series (**Appendix E**) brings together stakeholder and experts – both Australian and international – to ensure UNSW Australia remains an influential leader in the field.

Invited Lectures and Presentations

1. **Mitchell R.** (2014) *Data linkage for paediatric trauma and health service research*. Paediatric Injury Prevention and Management Research Forum, 1 August, Sydney.
2. **Mitchell R.** (2014) *Research involving national data linkage: perils and potential*. NSW Ministry of Health Epidemiology Special Interest Group, 7 March, Sydney.
3. **Mitchell R.** (2014) *Using record linkage to examine injury across the lifespan*. International Collaborative Effort on Injury Statistics, 22-24 October, Washington DC.
4. **Mitchell R. Bambach M.** (2014) *Characteristics of road trauma involving Aboriginal people in NSW, 2001-2011*. Centre for Road Safety, Transport for NSW, 11 February, Sydney.
5. **Mooren L.** (2014) *The cost burden of work related road crashes*, Zurich Customer Event - Transportation - True Cost of Human Risk
6. **Regan M.** (2014) *Driven to Distraction*. Annual general Meeting of the Canberra Branch of the Human Factors and Ergonomics Society of Australia. Canberra, 14 Dec, 2014.
7. **Regan M.** (2014) *Driver Distraction and Inattention: Definition and Meaning*. Cecil Gibb Seminar Series, ANU Research School of Psychology, Canberra, 23 June 2014.
8. **Regan M.** (2014) *Towards an Understanding of Driver Distraction and Inattention: Taxonomy and Theory*. AAAM/State Farm Engaged Driving Symposium, Washington DC, USA, 31 March 14.
9. **Regan M.** (2014) *Update on ITS and Human Factors Developments in Australia*. HUMANIST Advisory Board Meeting, Vienna Austria, 3 June 2014.
10. **Senserrick T.** (2014) *Do teens' driving records look like their parents'? A literature review and Australian example linking parent offences with novice crashes*. Transportation Research Board 93rd Annual Meeting, Washington DC; 12-16 January 2014.
11. **Senserrick T.** (2014) *Rurality, transport and disability: challenges in remote areas*. Disability in Rural Australia Roundtable, Social Policy Research Centre, The University of New South Wales, Sydney NSW; 10 February 2014.
12. **Williamson, A.** (2014) *To err is human... isn't it?* Presentation at Human Factors and Ergonomics Society of Australia, Annual General Meeting, August, 2014.
13. **Williamson, A.** (2014) *An Australian perspective on hours of service, fatigue and highway safety*. Presented at US National Research Council, Panel on Research Methodologies and Statistical Approaches to Understanding Driver Fatigue Factors in Motor Carrier Safety and Driver Health, Washington, 28-29 May, 2014.

Workshops and Keynote Presentations

1. **Williamson, A.** (2014) *What can we do about driver fatigue?* Symposium Convenor, International Congress on Applied Psychology, Paris, 8-15 July, 2014.
2. **Williamson, A.** (2014) *Where Transport and Workplace Safety Meet: Balancing efficiency and safety for transport users and transport providers.* Keynote presentation at Occupational Safety in Transport conference, Gold Coast, 17-19 September, 2014.
3. **Grzebieta R.** (2014) *Keynote Speaker.* AAPA National Workshop Series: Safety at Roadworks, Brisbane, Sydney, Adelaide, Melbourne, Hobart, Perth; 17-24 November 2014.
4. **Senserrick T.** (2014) *International Expert Panel.* Traffic Injury Research Foundation (TIRF) International Workshop on Graduated Driver Licensing (GDL) Systems, Itasca, Illinois, 24-25 June 2014.

Submissions and Contributions to Policy Development

Mooren, L., Grzebieta, R., Williamson, A. (2014) TARS Submission to Joint Standing Committee on Road Safety (StaySafe) Inquiry into Speed Zoning and its impact on the Demerit Points Scheme, 28 February 2014.

Conference Sponsorship

2nd Occupational Safety in Transport Conference (OSIT2014), Surfers Paradise QLD, 18-19 September 2014.

Media Profile and Engagement

As recognised experts in transport and road safety, the perspectives of our researchers are highly sought after by the media. **Table 1** summarises the level of engagement. However, it should be noted that this underestimates our impact. With stories picked-up and disseminated by numerous other outlets it is not possible to measure the true extent of how far our media presence extends.

Table 1: Summary of various engagements with print, radio, TV and other media during 2014.

Media Category	Number
Media Releases	1
Opinion Pieces	2
TV and Radio Interview	17
Print and Other Media	14
Total	34

Appendix A - Staff and Student List

Academic Staff

Prof Ann Williamson, Director, NHMRC Senior Research Fellow (0.8 FTE)
Prof Raphael Grzebieta, Professor of Road Safety (1.0 FTE)
Prof Mike Regan, Professor (0.5 FTE)
A/Prof Teresa Senserrick, Deputy Vice-Chancellor (Research) Fellow (1.0 FTE)
Dr Julie Hatfield, Senior Research Fellow (1.0 FTE)
Dr Rebecca Mitchell, Senior Research Fellow (0.8 FTE)
Ms Lori Mooren, Senior Research Fellow (1.0 FTE)
Dr Mike Bambach, Senior Research Fellow (1.0 FTE)
Dr Rena Friswell, Research Fellow (1.0 FTE)
Dr Soufiane Boufous, Postdoctoral Research Fellow (1.0 FTE)
Dr Mario Mongiardini, Postdoctoral Research Fellow (1.0 FTE)
Dr Joanna Wang, Research Fellow / Biostatistician (0.55 FTE)

Professional Staff

Mr Jan Eusebio, Senior Technical Officer (1.0FTE)
Mr Nick Pappas, Research Business Manager (0.8FTE)
Ms Sussan Su, Finance Manager (1.0 FTE)

Adjunct Appointments

Dr Anne-Marie Feyer, Adjunct Professor
Dr Soames Job, Adjunct Professor
Dr George Rechnitzer, Adjunct A/Professor
Dr Bruce Simons-Morton, Adjunct Professor

Research Assistants

Casey Aladic
Amael Arguel
Amy Chung
Stefan Goldfinch
Jacob Laidler
Praneel Maharaj
David Pan
Declan Patton
Nicole Pesa
Ngoc Bich Pham
Kristina Talcevska
Lily Truong
Lucy Wang
WuYi Zheng
Rainer Zeller

Postgraduate Students

Mr Thomas Bayley
Ms Amy Chung
Mr David Hicks
Ms Nurul Ikhmar Ibrahim
Mr Faisal Magableh
Mr Garrett Mattos
Ms Lori Mooren
Ms Nikki Olsen
Mr Declan Patton
Mr Mat Petrenko
Ms Louise Raggett
Ms Louise Shaw
Ms Vivien Shi
Mr Tana Tan
Ms Kim Thai

Appendix B - External Appointments

Memberships of Professional Bodies and External Committees

Prof Ann Williamson

Industry Member, Road Safety Remuneration Tribunal, Fair Work Australia

Member, Australian Injury Prevention Network Executive Committee

Member, NHMRC Assigners Academy

Member, NHMRC Translation College of Experts

Member, US Academy of Sciences Transportation Research Board's Safety Performance Committee ANB25

Member, US Academy of Sciences Transportation Research Board's Safety Data, Analysis and Evaluation Committee ANB20

Prof Raphael Grzebieta

Co-Chairman, US Academy of Sciences Transportation Research Board's Sub-committee on Rollover Crashworthiness ANB 45 (1).

Member Aus. Standards Committee CE/85 Automotive Child Restraints

Member Aus. Standards Committee CS/75 Automotive Occupant Restraints

Member Aus. Standards Committee ME/83 Motor Vehicle Frontal Protection Systems

Member Aus. Standards Committee ME/83-01, ISO Australian Reviewing Committee ISO/TC22/SC10 Impact Test Procedures

Member Aus. Standards Committee ME-051 Amusement Rides and Devices

Member Aust. Standards Committee CS/076 Protective Helmets for Vehicle Users

Member Australian/NZ Standards Committee CE/33 (AS/NZS 3845) Road Safety Barrier Systems

Member, Australasian College of Road Safety National Executive Committee

Member, US Academy of Sciences Transportation Research Board's National Cooperative Highway Research Program Panel 22-26 - motorcycles crashes into roadside barriers (2008-present)

Member, US Academy of Sciences Transportation Research Board's Occupant Protection Committee ANB45

Member, US Academy of Sciences Transportation Research Board's Roadside Safety Design Committee AFB20

Member, US Academy of Sciences Transportation Research Board's Roadside Safety Design Computational Mechanics sub-Committee AFB20(1)

Member, US Academy of Sciences Transportation Research Board's Roadside Safety Design International sub-Committee AFB20(2)

Prof Mike Regan

Australian Representative, International Organisation for Standardisation (ISO) Technical Committee 22, Sub-Committee 13 (“Ergonomics as Applicable to Road Vehicles”)
Chair, Board of Directors, Human Factors and Ergonomics Society of Australia
Member, Australian Organising Committee for the 2015 Triennial Congress of the International Ergonomics Association
Member, ITS Australia National Awards Committee
Member, Standards Australia Technical Committee IT23 (“Transport Information and Control Systems”)
Member, Standards Australia Technical Committee SF 21 (“Human Factors”)
Member, US Association for the Advancement of Automotive Medicine Expert Panel on Distracted Driving
President Human Factors and Ergonomics Society of Australia

A/Prof Teresa Senserrick

Deputy Chair, NSW (Sydney) Chapter, Australasian College of Road Safety
Inaugural Member, Young Driver Subcommittee, US Transportation Research Board Committee on Operator Education and Regulation, National Research Council/National Academies of Science
Member, Australian Injury Prevention Network
Member, Committee on Operator Education and Regulation, US Transportation Research Board, National Research Council/National Academies of Science
Member, Evaluation Steering Committee, Driving Change: Licensing Support Program, The George Institute for Global Health
Member, International Council on Alcohol, Drugs & Traffic Safety
Member, National Health and Medical Research Council of Australia Research Translation Faculty
Member, Road Safety Policy Committee, US Association for the Advancement of Automotive Medicine

Dr Julie Hatfield

Member, Australasian College of Road Safety National Executive Committee
Member, Standards Australia Committee CS-110 Bicycles

Dr Rebecca Mitchell

Member, NSW Product Safety Committee
Researcher representative, National Data Management Framework Mortality Data Management working group
Member, International Population Data Linkage Network: Research Methodologies working group
Member, International Population Data Linkage Network: Privacy, Ethics, Governance and Legislation working group
Member, International Population Data Linkage Network: Cross-country comparative studies working group
Member, Steering Group for the Australian and New Zealand Hip Fracture Registry

Ms Lori Mooren

Co-chair, Alternative Compliance Subcommittee, Transportation Research Board
Co-chair, Global Road Safety Subcommittee, Transportation Research Board
Director, International Safe System Institute for Road Safety
Fellow, Australasian College of Road Safety
Member, Steering Committee, Occupational Safety in Transport Conference, October, 2014, Gold Coast
Member, Truck & Bus Safety Committee, Transportation Research Board
Member, United Nations Road Safety Collaboration

Dr Mario Mongiardini

Friend, US Academy of Sciences Transportation Research Board's Roadside Safety Design Committee AFB20
Friend, US Academy of Sciences Transportation Research Board's Roadside Safety Design Computational Mechanics sub-Committee AFB20(1)
Friend, US Academy of Sciences Transportation Research Board's Roadside Safety Design International sub-Committee AFB20(2)
Friend, US Academy of Sciences Transportation Research Board's Rollover Crashworthiness sub-Committee ANB45(1)

Dr Joanna Wang

Council Member, Statistical Society of Australia

Advisory Boards**Prof Ann Williamson**

Member, Counting Rules Working Group for the National Transport Commission
Member, Fatigue Advisory Industry Group, National Rail Regulator
Member, Independent Expert Panel to the National Heavy Vehicle Regulator
Member, Management Board, Centre for Health Systems and Safety Research
Member, Surf Life Saving Australia (SLSA), Research Advisory Committee

Prof Raphael Grzebieta

Executive Board Member International Safe Systems Institute for Road Safety (2012 to present)

Prof Mike Regan

Member, Advisory Group, European HUMANIST Association
Member, International Advisory Committee, European Commission UDRIVE Project (Europe's first large-scale naturalistic driving study)
Member, USA-EU Bilateral Expert Group on Cognitive Load
Member, USA-EU Bilateral Expert Group on Driver Distraction

A/Prof Teresa Senserrick

Inaugural Member, Advisory Council, Road Safety Education, Australasia

Dr Rebecca Mitchell

International Advisory Board member, 1st Asian Conference on Ergonomics and Design, 21-24 May 2014, Jeju, Korea

Ms Lori Mooren

NSW WorkCover Road Freight Transport Action Plan Partner

Editorial Boards**Prof Ann Williamson**

Member of Editorial Board, Aviation Psychology and Applied Human Factors

Member of Editorial Board, Ergonomics Australia

Member of Editorial Board, Journal of Safety Research

Prof Raphael Grzebieta

Member Editorial Board, Journal of Bridge Engineering

Member of Editorial Board, Australian Journal of Structural Engineering

Member of Editorial Board, International Journal of Structural Crashworthiness

Member of Editorial Board, Journal of Transportation Safety & Security

Member of Editorial Board, The Electronic Journal of Structural Engineering

Peer-Review Editor in Chief, Journal of the Australasian College of Road Safety

Prof Mike Regan

Member, Editorial Board, Ergonomics Australia

Member, Editorial Board, European Transport Research Review

Member, Editorial Board, Human Factors

Member, Editorial Board, IET Intelligent Transport Systems

Member, Editorial Board, Journal of the Australasian College of Road Safety

A/Prof Teresa Senserrick

Associate Editor, BMC Public Health

Dr Rebecca Mitchell

Editor, Ergonomics Australia

Member, Editorial Board, International Journal of Injury Control and Safety Promotion

Appendix C - Postgraduate Students

Postgraduate Research Projects

Mr Thomas Bayley

Project: Improving road side barriers for heavy vehicle road safety

Supervisor: Prof Raphael Grzebieta

Ms Amy Chung

Project: The scientist-practitioner gap and barriers to research application in human factors/ergonomics.

Supervisor: Prof Ann Williamson

Mr David Hicks

Project: Assessing the suitability of quad bikes for the farming environment.

Supervisor: Prof Raphael Grzebieta

Ms Nurul Ikhmar Ibrahim

Project: Use of Voice Control of Mobile Phone Functions to Reduce Driver Distraction

Supervisor: Prof Mike Regan

Mr Faisal Magableh

Project: Investigation of road safety culture challenges facing Middle Eastern countries

Supervisor: Prof Raphael Grzebieta

Mr Garrett Mattos

Project: Rollover crashworthiness

Supervisor: Prof Raphael Grzebieta

Ms Lori Mooren

Project: Safety management system for heavy vehicle transport.

Supervisor: Prof Ann Williamson

Ms Nikki Olsen

Project: Developing and implementing assessment tools for the defence aviation hazard reporting and tracking systems.

Supervisor: Prof Ann Williamson

Mr Declan Patton

Project: The biomechanical determinants of sports-related concussion: Finite element simulations of unhelmeted head impacts to evaluate kinematic and tissue-level predictors of injury and investigate the design implications for soft-shell headgear

Supervisor: Prof Raphael Grzebieta

Mr Mathew Petrenko

Project: Influence of culture on pilot training

Supervisor: Prof Ann Williamson

Ms Louise Raggett

Project: Normal Operations Monitoring: A New Approach to Measuring and Managing Human Performance Tested in Aviation Ground Safety

Supervisor: Prof Ann Williamson

Ms Louise Shaw

Project: An application of the safe system approach to cycling safety: A cohort study of NSW cyclists.

Supervisor: Dr Julie Hatfield

Ms Vivien Shi

Project: Built environment characteristics and child pedestrian safety around schools

Supervisor: A/Prof Teresa Senserrick

Mr Tana Tan

Project: Assessing the biofidelity of current anthropomorphic test devices in predicting head, thoracic and spinal injuries in rollover accidents.

Supervisor: Prof Raphael Grzebieta

Ms Kim Thai

Project: Biomechanics of helmet performance

Supervisor: Dr Mike Bambach

Appendix D - Research Grants and Funding

Projects under Management

Project Start Date	TARS Investigator(s)	Project Title / Collaborators		
2008	Grzebieta, R Friswell, R	Motorcycle crashes into roadside and median crash barriers		
		Australian Automobile Association		
		Motor Accidents Authority of NSW		
		Office of Road Safety		
		Transit New Zealand		
2009	Williamson, A	The relationship between fatigue, sleepiness and crash risk while driving		
		National Health & Medical Research Council		
		2010	Grzebieta, R Job, S Williamson, A	Safety Management System for Heavy Vehicle Transport
				Australian Research Council
				Motor Accidents Authority of NSW
National Transport Commission				
2010	Hatfield, J	Road crash injuries - cost and prevention - Employing information collected during crash investigations to address several road safety issues		
		Transport Certification Australia Ltd		
		Transport for NSW		
2010	Williamson, A	Senior Research Fellowship		
		Zurich Financial Services Australia		
2010	Williamson, A	It's only human: Understanding why errors occur in skilled behaviour		
		AustRoads Ltd		
2011	Hatfield, J Job, S Williamson, A	Preventing injuries in crashes involving young drivers: Development and evaluation of impulse control training		
		National Health & Medical Research Council		
		Australian Research Council		
		Transport for NSW		
		Trent Driving School		
2011	Hatfield, J	The provision of research evaluation services for the novice driver program trial		
		Youthsafe		
2011	Hatfield, J	The provision of research evaluation services for the novice driver program trial		
		Monash University		



Project Start Date	TARS Investigator(s)	Project Title / Collaborators
2011	Grzebieta, R Bambach, M Job, S	Dynamic Rollover Occupant Protection: evaluation and regulation
		Australian Research Council
		BHP Billiton Limited
		Center for Injury Research
		George Washington University
		Korea Automobile Testing & Research Institute
		Medical College of Wisconsin
		Monash University
		Office of Road Safety
		Transport Accident Commission Victoria
		Transport for NSW
		University of Bolton
		University of Sydney
2012	Grzebieta, R	Performance Testing Quad Bikes
		Australian Competition & Consumer Commission
		Department of Defence
		WorkCover Authority of NSW
2012	Mitchell, R Williamson, A	Burden & cost of the injury-attributable health care use and mortality in Australia.
		Telethon Institute for Child Health Research
2012	Mitchell, R Bambach, M Grzebieta, R Williamson, A	Examining road traffic casualties through data linkage project.
		Motor Accidents Authority of NSW
2013	Boufous, S	Falls risk associated with cataract and after first and second eye cataract surgery.
		University of Sydney
		National Health & Medical Research Council
2013	Friswell, R Williamson, A	Development of an evaluation framework for a Pilot of the Risk Classification System with an outer limit of 15.5 hours
		Transport for NSW
2013	Grzebieta, R Bambach, M	Road safety Barrier Research for Motorcycling
		Accident Compensation Corporation NZ
2013	Hatfield, J Boufous, S Grzebieta, R	Safety on Shared Facilities – Literature and jurisdictional review and field research
		Transport for NSW
2013	Mitchell, R	Road traffic casualty data
		Transport for NSW
2013	Mitchell, R	The impact of dementia on access to and outcomes from rehabilitation following fracture related hospitalisation
		Dementia Collaborative Research Centre

Project Start Date	TARS Investigator(s)	Project Title / Collaborators
2013	Mitchell, R	Trauma Journey Research Project
		University of Sydney
		Day of Difference Foundation
2013	Hatfield, J	Helping ACT kids to cycle safely: Evaluation of the Safe Cycle
		NRMA - ACT Road Safety Trust
2013	Regan, MA Grzebieta, R Williamson, A	Integrated Facility for Recording Driver and Road User Behaviour
		Australian Research Council
		Monash University
		Motor Accident Commission SA
		Office of Road Safety
		Queensland University of Technology
		Transport Accident Commission Victoria
		Transport for NSW
		University of Adelaide
		University of New South Wales
		VicRoads
2014	Bambach, M Mitchell, R Williamson, A	CRS Health Linkage Project
		Transport for NSW
2014	Friswell, R Boufous, S Williamson, A	Evaluation of the Smart Rest Area Trial
		Transport for NSW
2014	Mitchell, R	Improving Health Outcomes in Children Suffering Major Injury
		University of Sydney National Health & Medical Research Council
2014	Mitchell, R	Transitions between home, hospital and residential aged care following an injury related hospitalisation for people with and without dementia.
		Dementia Collaborative Research Centre
2014	Mitchell, R Senserrick, T	Best Practice technologies for training novice pilots and drivers
		University of New South Wales
2014	Mooren, L	NRSP Online Benchmarking Tool Consultancy
		ARRB Group
2014	Williamson, A Bambach, M Grzebieta, R	ACT Road Safety Camera Program Evaluation
		ACT Department of Justice and Community Safety
2014	Williamson, A	Fatigue and Electronic Work Diary Enforcement
		National Transport Commission
2014	Regan, MA	Dr Marco Dozza, Chalmers University of Technology in Gothenburg, Sweden
		University of New South Wales

Project Start Date	TARS Investigator(s)	Project Title / Collaborators
2014	Regan, MA Grzebieta, R Senserrick, T Williamson, A	The Australian Naturalistic Driving Study: Innovation in Road Safety Research and Policy
		Australian Research Council
		NRMA Limited
		Transport Accident Commission Victoria
		Transport for NSW
		VicRoads
2014	Senserrick, T Regan, MA Williamson, A	Development of a compulsory curriculum for pre-learner motorcyclists
		VicRoads
2014	Senserrick, T Williamson, A	Development of Victoria's new motorcycle learner permit and licence tests
		VicRoads
2014	Senserrick, T Boufous, S	Evaluating RRISK: establishing the evidence base for a novel education program to reduce young driver and passenger road crash involvement
		University of New South Wales

Appendix E - TARS Seminar Series

Bicycle Safety: Naturalistic Cycling Studies in Europe

Speaker: Dr Marco Dozza

Date: 29 January 14

Biography

Marco Dozza is an Assistant Professor at Chalmers University of Technology in Gothenburg, Sweden. He earned his PhD in Bioengineering from the University of Bologna, Italy, in collaboration with Oregon Health & Science University, Portland OR, USA. After graduation, Dr Dozza worked as a System Developer at Volvo Technology, in Sweden. Since 2010, he has worked with the Accident Prevention Group at Chalmers University and his research interests focus on planning and analysing data from naturalistic driving and cycling studies and on field operational testing of advanced driver assistance systems. Dr Dozza is currently working on several national and international projects including the SHRP2 naturalistic driving study (involving around 3,000 vehicles) and Swedish studies on cycling safety using instrumented bicycles. He has published widely, teaches in the Master program for Automotive Engineering at Chalmers, and is in Australia as a Visiting Fellow with TARS Research at UNSW Australia.

Abstract

In 2011, there were 35 cyclist fatalities in Australia, 677 in the US and 2092 in Europe. In Europe, bicycle safety is a growing concern, as the number of cyclists increases and electrical bicycles become increasingly popular. Nevertheless, cycling safety is poorly investigated and little is known from accident databases about cyclist behaviour and bicycle accident causation. This seminar will focus on pioneering naturalistic cycling studies, involving bicycles instrumented with sophisticated technologies that monitor cyclists while they are attending to their daily routines in order to better understand normal cycling and what threatens cyclists' safety. Using instrumented (conventional and electrical) bicycles, several studies are ongoing in Europe to collect naturalistic cycling data. These new data promise cutting-edge insights into cyclist behaviour and may offer the basis for the development of intelligent cooperative systems. These developments are discussed, and the potential of naturalistic cycling data to be combined with other road safety data in order to explain accident causation will also be considered.

Acknowledgements

This seminar was conducted in conjunction with the UNSW School of Aviation and Australasian College of Road Safety. Dr Marco Dozza's participation was facilitated by the UNSW Faculty of Science Visiting Research Fellowship scheme.

Naturalistic driving and flying studies: Using Instrumented Cars and Planes to Record Driver and Pilot Behaviour in Normal and Safety-Critical Situations

Speaker: Professor Michael Regan

Date: 28 May 2014

Acknowledgements

This seminar was organised and hosted by the UNSW School of Aviation.

The combined effects of alcohol and sleep loss on cognition and simulated driving performance

Speaker: Mr Ivan Lee

Date: 30 June 2014

Biography

Ivan is a M.Soc.Sci (Psychology) student at the National University of Singapore (NUS), and a research assistant in the Chronobiology and Sleep Laboratory (CSL) in Duke-NUS Graduate Medical School, Singapore. His main research interests are in the effects of sleep loss on cognitive and behavioural abilities. He is also interested in assessing the physiologic outcomes of sleep deprivation as well as fatigue risk management.

Abstract

Both sleep loss and alcohol consumption have been shown to impair driving ability and cognitive performance. It has been suggested that when sleep loss is combined with drinking, performance deficits are much greater than in either factor considered alone. Given that alcohol consumption and partial sleep deprivation are commonly combined, especially in younger drivers, it is important to investigate these effects of behaviour on the risk for driving lapses and attentional failure.

This study is the first to systematically examine the interaction of alcohol and sleep loss on driving performance, cognition, and fatigue, using an alcohol clamp, a unique and reliable method in maintaining one at a constant blood alcohol level across an extended period of time.

An Update on Road Safety Research Activities in Europe

Speakers: Professor Andrew Morris and Dr Nicole van Nes

Date: 31 July 2014

Biography Speaker 1

Andrew Morris is Professor of Human Factors in Transport Safety within the University of Loughborough Design School, in the UK. Andrew has 25 years' experience in the field of road transportation safety, vehicle safety, accident investigation, crash-injury and driver behaviour research having worked previously on the UK's Co-operative Crash Injury (CCIS) and On-the-Spot (OTS) studies. More recently, he has worked as project leader within large European consortiums on behalf of the European Commission on major road safety initiatives including the SafetyNet, PENDANT and DaCoTA projects. Andrew is also Director of Internationalisation for the Loughborough Design School.

Abstract

Andrew's presentation will describe progress in road safety in the UK over the past 25 years and stress how, given that accidents are an inevitable artefact of the road transport system, the emphasis has changed from prevention of injuries to that of prevention of accidents altogether - and how knowledge from in-depth accident investigations has contributed to this change of approach.

Biography Speaker 2

Dr Nicole van Nes is a Senior Researcher at the Dutch National Road Safety Research Institute, SWOV, in the Netherlands. She holds an MSc degree in Industrial Design Engineering from Delft University of Technology and a PhD in Social Sciences. She has an academic background in

technology and behavioural sciences, specialising in the interplay between technology and behaviour and how to stimulate the desired behaviour by design. Nicole has been actively involved in several European Naturalistic Driving Study (NDS) initiatives co-funded by the European Commission, including the INTERACTION, DaCoTA and PROLOGUE projects.

Abstract

Currently, Dr van Nes is the coordinator of the EC-funded, trans-European, large-scale European Naturalistic Driving Study (UDRIVE; 10M€). Her presentation will provide an overview of the project and how it is expected to support future road safety improvements in Europe.

Acknowledgements

This seminar was conducted in conjunction with the UNSW School of Aviation and Australasian College of Road Safety.

Appendix F - Academic Publications and Presentations

Books and Chapters

1. **Bambach, M. R.** (2014). Strengthening of thin-walled (hollow) steel sections using fibre-reinforced polymer (FRP) composites. In *Rehabilitation of Metallic Civil Infrastructure Using Fiber Reinforced Polymer (FRP) Composites: Types Properties and Testing Methods* (pp. 140-168). Cambridge, UK: Elsevier Inc.. doi:[10.1533/9780857096654.2.140](https://doi.org/10.1533/9780857096654.2.140)
2. Labeye, E., Brusque, C., & **Regan, M. A.** (2014). Driver Acceptance of Electric Vehicles: Findings from the French MINI E study. In M. Regan, T. Horberry, & A. Stevens (Eds.), *Driver acceptance of New Technology: Theory, Measurement and Optimisation*. (pp. 153-168). Surrey, England: Ashgate. Retrieved from <http://www.ashgate.com/isbn/9781409439844>
3. Mitsopoulos, E., & **Regan, M. A.** (2014). Measuring Acceptability through Questionnaires and Focus Groups. In M. Regan, T. Horberry, & A. Stevens (Eds.), *Driver acceptance of New Technology: Theory, Measurement and Optimisation*. (pp. 89-104). Surrey, England: Ashgate. Retrieved from <http://www.ashgate.com/isbn/9781409439844>
4. **Regan, M. A.**, Horberry, T., & Stevens, A. (2014). Driver Acceptance of New Technology: Overview. In M. Regan, T. Horberry, & A. Stevens (Eds.), *Driver acceptance of New Technology: Theory, Measurement and Optimisation*. (pp. 3-8). Surrey, England: Ashgate. Retrieved from <http://www.ashgate.com/isbn/9781409439844>
5. **Regan, M. A.**, Horberry, T., & Stevens, A. (2014). *Driver Acceptance of New Technology: Theory, Measurement and Optimisation*. Surrey, England: Ashgate (Hardcover ISBN 9781-1-4094-3985-1). Retrieved from <http://www.ashgate.com/isbn/9781472405852>
6. Stevens, A., Horberry, T., & **Regan, M. A.** (2014). Driver acceptance of new technology: Synthesis and Perspectives. In M. Regan, T. Horberry, & A. Stevens (Eds.), *Driver acceptance of New Technology: Theory, Measurement and Optimisation*. (pp. 335-348). Surrey, England: Ashgate. Retrieved from <http://www.ashgate.com/isbn/9781409439844>

Journal Articles

1. **Bambach, M. R.** (2014). Fibre composite strengthening of thin steel passenger vehicle roof structures. *Thin-Walled Structures*, 74, 1-11. doi:[10.1016/j.tws.2013.09.018](https://doi.org/10.1016/j.tws.2013.09.018)
2. **Bambach, M. R.** (2014). Numerical simulation of the shock spalling failure of bonded fibre–epoxy strengthening systems for metallic structures. *Engineering Structures*, 64, 1-11. doi:[10.1016/j.engstruct.2014.01.037](https://doi.org/10.1016/j.engstruct.2014.01.037)
3. **Bambach, M. R.** (2014). Plastic mechanism analysis of vehicle roof frames consisting of spot-welded steel hat sections. *Structural Engineering and Mechanics*, 52(6), 1085-1098. doi:[10.12989/sem.2014.52.6.1085](https://doi.org/10.12989/sem.2014.52.6.1085)
4. **Bambach, M., Mitchell, R., Mattos, G., Grzebieta, R., & McIntosh, A.** (2014). Seriously injured occupants of passenger vehicle rollover crashes in NSW. *Journal of the Australasian College of Road Safety*, 25(3), 30-40. Retrieved from <http://acrs.org.au/wp-content/uploads/ACRSjournalVol25No3Aug14WEB.pdf>
5. Brown, J., **Senserrick, T.**, & Bilston, L. (2014). Restraint Use and Injury Patterns of Young Drivers and Passengers Admitted to Hospitals in New South Wales, Australia. *Transportation Research Record: Journal of the Transportation Research Board*, 2425(-1), 41-49. doi:[10.3141/2425-06](https://doi.org/10.3141/2425-06)
6. Chung, A. Z. Q., **Williamson, A.**, & Shorrocks, S. T. (2014). What do human factors and ergonomics professionals value in research publications? Re-examining the research–practice gap. *Ergonomics*, 57(4), 490-502. doi:[10.1080/00140139.2014.894582](https://doi.org/10.1080/00140139.2014.894582)
7. Curtis, K., Lam, M., **Mitchell, R.**, Black, D., Taylor, C., Dickson, C.,... Myburgh, J. (2014). Acute costs and predictors of higher treatment costs of trauma in New South Wales, Australia. *Injury*, 45(1), 279-284. doi:[10.1016/j.injury.2012.10.002](https://doi.org/10.1016/j.injury.2012.10.002)
8. Curtis, K., Lam, M., **Mitchell, R.**, Dickson, C., & McDonnell, K. (2014). Major trauma: the unseen financial burden to trauma centres, a descriptive multicentre analysis. *Australian Health Review*, 38(1), 30. doi:[10.1071/AH13061](https://doi.org/10.1071/AH13061)
9. de Rome, L., **Boufous, S.**, Georgeson, T., **Senserrick, T.**, & Ivers, R. (2014). Cyclists' clothing and reduced risk of injury in crashes. *Accident Analysis & Prevention*, 73, 392-398. doi:[10.1016/j.aap.2014.09.022](https://doi.org/10.1016/j.aap.2014.09.022)
10. de Rome, L., **Boufous, S.**, Georgeson, T., **Senserrick, T.**, Richardson, D., & Ivers, R. (2014). Bicycle Crashes in Different Riding Environments in the Australian Capital Territory. *Traffic Injury Prevention*, 15(1), 81-88. doi:[10.1080/15389588.2013.781591](https://doi.org/10.1080/15389588.2013.781591)
11. Digges, K., Eigen, A., Tahan, F., & **Grzebieta, R.** (2014). Factors That Influence Chest Injuries in Rollovers. *Traffic Injury Prevention*, 15(sup1), S42-S48. doi:[10.1080/15389588.2014.930737](https://doi.org/10.1080/15389588.2014.930737)
12. Dinh, M. M., Bein, K. J., Roncal, S., Martiniuk, A. L. C., & **Boufous, S.** (2014). The impact of alcohol intoxication in patients admitted due to assault at an Australian major trauma centre: A trauma registry study from 1999 to 2009. *Emergency Medicine Journal*, 31(5), 390-393. doi:[10.1136/emmermed-2012-202076](https://doi.org/10.1136/emmermed-2012-202076)
13. **Grzebieta, R., Rechnitzer, G., & Mitchell, R.** (2014). Reconstruction of a go-karting fatality. *International Journal of Forensic Engineering*, 2(1), 71. doi:[10.1504/IJFE.2014.059246](https://doi.org/10.1504/IJFE.2014.059246)
14. Harvey, L. A., **Mitchell, R. J.**, Lord, S. R., & Close, J. C. T. (2014). Determinants of uptake of home modifications and exercise to prevent falls in community-dwelling older people. *Australian and New Zealand Journal of Public Health*, 38(6), 585-590. doi:[10.1111/1753-6405.12243](https://doi.org/10.1111/1753-6405.12243)
15. Harvey, L., **Mitchell, R. J.**, Sukumar, D., & Close, J. (2014). The influence of dementia on fall-related injury hospitalisations: a linked data study.. In *6th Biennial Australian and New Zealand Fall Prevention Conference*. Sydney.

16. **Hatfield, J.**, Fernandes, R., & **Job, R. F. S.** (2014). Thrill and Adventure Seeking as a modifier of the relationship of perceived risk with risky driving among young drivers. *Accident Analysis & Prevention*, 62, 223-229. doi:[10.1016/j.aap.2013.09.028](https://doi.org/10.1016/j.aap.2013.09.028)
17. Jagnoor, J., Blyth, F., Gabbe, B., Derrett, S., **Boufous, S.**, Dinh, M.,... Cameron, I. D. (2014). Factors influencing social and health outcomes after motor vehicle crash injury: an inception cohort study protocol. *BMC Public Health*, 14(1), 199. doi:[10.1186/1471-2458-14-199](https://doi.org/10.1186/1471-2458-14-199)
18. Keay, L., Palagyi, A., McCluskey, P., Lamoureux, E., Pesudovs, K., Lo, S.,... **Boufous, S.**, ... Meuleners, L. (2014). Falls in Older people with Cataract, a longitudinal evaluation of impact and risk: the FOCUS study protocol. *Injury Prevention*, 20(4), e7. doi:[10.1136/injuryprev-2013-041124](https://doi.org/10.1136/injuryprev-2013-041124)
19. **Mattos, G., Grzebieta, R. H., Bambach, M., & McIntosh, A.** (2014). Roof Damage Patterns and Serious Head Injuries in Pure Rollover Crashes. *Transportation Research Record: Journal of the Transportation Research Board*, 2425(-1), 61-66. doi:[10.3141/2425-08](https://doi.org/10.3141/2425-08)
20. **Mitchell, R. J., & Bambach, M.** (2014). Examination of narratives from emergency department presentations to identify road trauma, crash and injury risk factors for different age groups.. *Health Information Management Journal*, 9 pages. doi:[10.12826/18333575.2014.0014.Mitchell](https://doi.org/10.12826/18333575.2014.0014.Mitchell)
21. **Mitchell, R. J., Bambach, M. R., & Friswell, R.** (2014). Work and non-work-related vehicle crashes: The contribution of risky driving practices. *Safety Science*, 68, 65-72. doi:[10.1016/j.ssci.2014.02.025](https://doi.org/10.1016/j.ssci.2014.02.025)
22. **Mitchell, R. J., Bambach, M., Grzebieta, R., & Williamson, A.** (2014). Measuring non-fatal road trauma: using police reported and hospital admission-based data to monitor trends and inform policy.. *Journal of the Australasian College of Road Safety*, 25(3), 15-22. Retrieved from <http://acrs.org.au/wp-content/uploads/ACRSjournalVol25No3Aug14WEB.pdf>
23. **Mitchell, R. J., Cameron, C. M., & Bambach, M. R.** (2014). Data linkage for injury surveillance and research in Australia: perils, pitfalls and potential. *Australian and New Zealand Journal of Public Health*, 38(3), 275-280. doi:[10.1111/1753-6405.12234](https://doi.org/10.1111/1753-6405.12234)
24. **Mitchell, R. J., Lord, S. R., Harvey, L. A., & Close, J. C. T.** (2014). Associations between obesity and overweight and fall risk, health status and quality of life in older people. *Australian and New Zealand Journal of Public Health*, 38(1), 13-18. doi:[10.1111/1753-6405.12152](https://doi.org/10.1111/1753-6405.12152)
25. **Mitchell, R. J., Ware, L., & Bambach, M. R.** (2014). The role of evidence, standards and education in rock fishing safety in New South Wales, Australia. *Australian and New Zealand Journal of Public Health*, 38(6), 579-584. doi:[10.1111/1753-6405.12247](https://doi.org/10.1111/1753-6405.12247)
26. **Mitchell, R. J., Williamson, A. M., Molesworth, B., & Chung, A. Z. Q.** (2014). A review of the use of human factors classification frameworks that identify causal factors for adverse events in the hospital setting. *Ergonomics*, 57(10), 1443-1472. doi:[10.1080/00140139.2014.933886](https://doi.org/10.1080/00140139.2014.933886)
27. **Mitchell, R., Stanford, R., McVeigh, C., Bell, D., Close, J.,** (2014) Incidence, circumstances and treatment of high-level cervical spinal fracture without spinal cord injury in New South Wales, Australia over a 12 year period. *Injury* 45, 217-222.
28. **Mongiardini, M.** (2014). Reconstruction of rollovers resulting in serious head injury. In
29. **Mongiardini, M., Hicks, D. C. E., Grzebieta, R. H., & Rehnitzner, G.** (2014). Modeling a Quad Bike for Simulating Rollover Events. *Transportation Research Record: Journal of the Transportation Research Board*, 2425(-1), 50-60. doi:[10.3141/2425-07](https://doi.org/10.3141/2425-07)
30. **Mongiardini, M., Mattos, G., & Grzebieta, R.** (2014). Computer modelling of a test device for investigating injury causes in vehicle rollovers. *Journal of the Australasian College of Road Safety*, 25(2), 16-22. Retrieved from <http://acrs.org.au/wp-content/uploads/ACRSjournalVol25No2May14WEB.pdf>

31. **Mooren, L. E., Grzebieta, R. H., & Job, S.** (2014). Speed - the biggest and most contested road killer. *Journal of the Australasian College of Road Safety*, 25(1), 13-18. Retrieved from <http://search.informit.com.au/documentSummary;dn=178718643943262;res=IELENG>
32. **Mooren, L., Grzebieta, R., Williamson, A., Olivier, J., & Friswell, R.** (2014). Safety management for heavy vehicle transport: A review of the literature. *Safety Science*, 62, 79-89. doi:[10.1016/j.ssci.2013.08.001](https://doi.org/10.1016/j.ssci.2013.08.001)
33. **Mooren, L., Williamson, A., Friswell, R., Olivier, J., Grzebieta, R., & Magableh, F.** (2014). What are the differences in management characteristics of heavy vehicle operators with high insurance claims versus low insurance claims?. *Safety Science*, 70, 327-338. doi:[10.1016/j.ssci.2014.07.007](https://doi.org/10.1016/j.ssci.2014.07.007)
34. Olivier, J., **Wang, J. J., & Grzebieta, R.** (2014). A systematic review of methods used to assess mandatory bicycle helmet legislation in New Zealand. *Journal of the Australasian College of Road Safety*, 25(4), 24-31. Retrieved from <http://acrs.org.au/wp-content/uploads/ACRSJournalVol25NoNov14WEB-1.pdf>
35. Olivier, J., **Wang, J. J., Walter, S., & Grzebieta, R.** (2014). Anti-Helmet Arguments: Lies, damned lies and flawed statistics. *Journal of the Australasian College of Road Safety*, 25(4), 10-23. Retrieved from <http://acrs.org.au/wp-content/uploads/ACRSJournalVol25NoNov14WEB-1.pdf>
36. **Regan, M. A., & Strayer, D.** (2014). Towards an understanding of driver inattention: taxonomy and theory. *Annals of Advances in Automotive Medicine*, 58(n/a), 5-14. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/24776222>
37. Renfro, D., Roberts, A., **Grzebieta, R., Rehnitz, G., & Simmons, J. K.** (2014). Reconciliation of ATV/UTV handling characteristics and the operator. In *SAE Technical Papers* Vol. 1. SAE International. doi:[10.4271/2014-01-0095](https://doi.org/10.4271/2014-01-0095)
38. Sakashita, C., Jan, S., **Senserrick, T., Lo, S., & Ivers, R.** (2014). Perceived Value of a Motorcycle Training Program: The Influence of Crash History and Experience of the Training. *Traffic Injury Prevention*, 15(4), 407-413. doi:[10.1080/15389588.2013.828346](https://doi.org/10.1080/15389588.2013.828346)
39. Sakashita, C., **Senserrick, T., Boufous, S., de Rome, L., Elkington, J., & Ivers, R.** (2014). The Use of Self-Report Exposure Measures Among Novice Motorcyclists: Appropriateness and Best Practice Recommendations. *Traffic Injury Prevention*, 15(5), 491-500. doi:[10.1080/15389588.2013.837576](https://doi.org/10.1080/15389588.2013.837576)
40. Sakashita, C., **Senserrick, T., Lo, S., Boufous, S., de Rome, L., & Ivers, R.** (2014). The Motorcycle Rider Behavior Questionnaire: Psychometric properties and application amongst novice riders in Australia. *Transportation Research Part F: Traffic Psychology and Behaviour*, 22, 126-139. doi:[10.1016/j.trf.2013.10.005](https://doi.org/10.1016/j.trf.2013.10.005)
41. Schmetzmann, M., **Williamson, A., & Black, D.** (2014). Unintentional poisoning in young children: Does developmental stage predict the type of substance accessed and ingested?. *Child: Care, Health and Development*, 40(1), 50-59. doi:[10.1111/j.1365-2214.2012.01424.x](https://doi.org/10.1111/j.1365-2214.2012.01424.x)
42. **Senserrick, T., Boufous, S., de Rome, L., Ivers, R., & Stevenson, M.** (2014). Detailed Analysis of Pedestrian Casualty Collisions in Victoria, Australia. *Traffic Injury Prevention*, 15(sup1), S197-S205. doi:[10.1080/15389588.2014.935356](https://doi.org/10.1080/15389588.2014.935356)
43. Stevenson, M. R., Elkington, J., Sharwood, L., Meuleners, L., Ivers, R., **Boufous, S., Williamson, A., & Wong, K.** (2014). The Role of Sleepiness, Sleep Disorders, and the Work Environment on Heavy-Vehicle Crashes in 2 Australian States. *American Journal of Epidemiology*, 179(5), 594-601. doi:[10.1093/aje/kwt305](https://doi.org/10.1093/aje/kwt305)
44. van Kamp I, Santos J, Du W, Olivier J, **Hatfield J** (2014) Outdoor hazards and falls among community-dwelling older Australians (2014). *Healthy Aging Research*, 3(17) doi:[10.12715/har.2014.3.17](https://doi.org/10.12715/har.2014.3.17)

45. Vitesnikova, J., Dinh, M., Leonard, E., **Boufous, S.**, & Conigrave, K. (2014). Use of AUDIT-C as a tool to identify hazardous alcohol consumption in admitted trauma patients. *Injury*, 45(9), 1440-1444. doi:[10.1016/j.injury.2014.01.004](https://doi.org/10.1016/j.injury.2014.01.004)
46. Wang, H., Liddell, C.H, Coates, M.M, Mooney, M.D, Levitz, C.E [.....],**Boufous, S.**, et al. (2014). Global, regional, and national levels of neonatal, infant, and under-5 mortality during 1990–2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet*, 384(9947), 957-979. doi:[10.1016/S0140-6736\(14\)60497-9](https://doi.org/10.1016/S0140-6736(14)60497-9)
47. **Wang, J.**, Olivier, J., & **Grzebieta, R.** (2014). Response to 'Evaluation of New Zealand's bicycle helmet law' article. *New Zealand Medical Journal*, 127(1389), 106-108. Retrieved from <http://search.proquest.com/docview/1499404755?accountid=12763>
48. **Williamson, A.**, **Friswell, R.**, Olivier, J., & **Grzebieta, R.** (2014). Are drivers aware of sleepiness and increasing crash risk while driving?. *Accident Analysis & Prevention*, 70, 225-234. doi:[10.1016/j.aap.2014.04.007](https://doi.org/10.1016/j.aap.2014.04.007)
49. Zeltzer, J., **Mitchell, R. J.**, Toson, B., Harris, I. A., & Close, J. (2014). Determinants of time to surgery for patients with hip fracture. *ANZ Journal of Surgery*, 84(9), 633-638. doi:[10.1111/ans.12671](https://doi.org/10.1111/ans.12671)
50. Zeltzer, J., **Mitchell, R. J.**, Toson, B., Harris, I. A., Ahmad, L., & Close, J. (2014). Orthogeriatric services associated with lower 30-day mortality for older patients who undergo surgery for hip fracture. *The Medical Journal of Australia*, 201(7), 409-411. doi:[10.5694/mja14.00055](https://doi.org/10.5694/mja14.00055)

Conference Papers, Abstracts and Presentations

1. **Boufous, S.**, **Senserrick, T.**, Ivers, R., Richardson, D., & de Rome, L. (2014). Circumstances of on-road single-vehicle cyclist crashes in the Australian Capital Territory. *Proceedings, International Cycling Safety Conference 2014*, 9 pages. Retrieved from <http://www.icsc2014.eu/program/program-proceedings>
2. Brown, J., **Senserrick, T.**, & Bilston, L. (2014). Gender differences in crash characteristics among young drivers admitted to hospital in NSW. In *Proceedings of the 2014 Australasian Road Safety Research, Policing & Education Conference* (pp. 8 pages). Melbourne, Australia. Retrieved from <http://arsrpe.acrs.org.au/index.cfm?action=main.paper&id=2946>
3. Brown, J., **Senserrick, T.**, & Bilston, L. E. (2014). Restraint use and injury patterns among young drivers and passengers aged 17-25 years admitted to hospital in NSW, Australia. In *TRB 93rd Annual Meeting Compendium of Papers* (pp. 15 pages). Washington D.C.: 2014 NTOC Forums & Traffic Signal Library.. Retrieved from <http://amonline.trb.org/trb-55856-2014a-1.823612/t-1139-1.8665354/704-1.866595/14-5286-1.866596/14-5286-b-1.866598>
4. Chung, AZQ., **Williamson, A.**, Shorrocks, S. (2014) Trends in journal publication in Human Factors and Ergonomics from 1960 to 2010: The research-practice relationship as reflected in the academic literature. Presented at *Human Factors and Ergonomics Society of Australia, 50th Annual Conference*, Adelaide, 17-19 November, 2014.
5. Curtis, K., **Mitchell, R. J.**, Lam, M., & Dickson, C. (2014). Activity-based funding and hospitalised trauma: is reimbursement for trauma treatment costs adequate.. In *International Health Data Linkage Conference*. Vancouver, Canada. Retrieved from <http://www.ihdlnconference2014.org/abstract/Mitchell1>
6. **Grzebieta, R.**, **Rechnitzer, G.**, McIntosh, A., Simmons, K., **Mitchell, R. J.**, **Hicks, D.**,... **Mongiardini, M.** (2014). The Australian Quad Bike Performance Project: Results and The Way Forward for Quads and Side by Side Vehicle Safety.. In *National Farm Health and Safety Conference*. Tasmania. Retrieved from http://www.farmsafe.org.au/resources/document/12-10-5_57_31_Final_FSA_Conference_Program_2014.pdf

7. Harvey, L., **Mitchell, R.**, Sukumar D. Close J. (2014) The influence of dementia on fall-related injury hospitalisations: a linked data study. *6th Biennial Australian and New Zealand Fall Prevention Conference*, 16-18 November, Sydney.
8. **Hatfield, J.** (2014). The effect of cycling for transport on use of other transport modes.. In *Velo-city Global 2014*. Adelaide. Retrieved from http://www.velo-city2014.com/files/pdf/VELO14_Program-Matrix_CURRENT.pdf
9. **Hatfield, J.**, & Prabhakaran, P. (2014). An investigation of behaviour and attitudes relevant to the user safety of pedestrian-cyclist shared paths.. In *Velo-city Global 2014*. Adelaide. Retrieved from http://www.velo-city2014.com/files/pdf/VELO14_Program-Matrix_CURRENT.pdf
10. **Hatfield, J.**, Poulos, R., Rissel, C., **Grzebieta, R.**, McIntosh, A., & Flack, L. (2014). Determinants and outcomes of cyclists' choice of lane position.. In *International Cycling Safety Conference*. Gothenburg, Sweden. Retrieved from <http://www.icsc2014.eu/program/program-proceedings>
11. Ivers R, Hunter K, Helps Y, Clapham K, **Senserrick T**, Byrne J, Martiniuk A, Daniels J, Harrison J. Driver licensing and Aboriginal and Torres Strait Islander people. *Australasian Road Safety Research, Policing and Education Conference*, Melbourne VIC, November 12-14, 2014.
12. Ivers R, Sakashita C, **Senserrick T**, Elkington J, Boufous S, de Rome L. Evaluation of VicRide, an on-road motorcycle coaching program: study protocol and baseline characteristics. *Australasian Road Safety Research, Policing and Education Conference*, Melbourne VIC, November 12-14, 2014.
13. **Mattos, G. A.**, **Grzebieta, R.**, **Bambach, M.**, & McIntosh A. (2014). Technical challenges in replicating serious head injuries in a dynamic rollover test. In *Proceedings of the 2014 Australasian Road Safety Research, Policing & Education Conference* (pp. 15 pages). Melbourne, Australia. Retrieved from http://acrs.org.au/files/arsrpe/full-paper_2059.pdf
14. **Mattos, G.**, **Mongiardini, M.**, **Grzebieta, G.**, & McIntosh, A. (Eds.), *9th International Crashworthiness Conference*. Sarawak, Malaysia. Retrieved from http://www.researchgate.net/publication/268334584_Reconstruction_of_rollovers_resulting_in_serious_head_injury
15. **Mitchell, R. J.**, **Bambach, M.**, & **Friswell, R.** (2014). The contribution of risky driving practices to work and non-work-related vehicle crashes.. In *Proceedings of the Occupational Safety in Transport Conference*. Gold Coast, Queensland: CARRS-Q, Queensland University of Technology. Retrieved from <http://ositconference.com/program/2014-proceedings/>
16. **Mitchell, R. J.**, **Bambach, M.**, & **Friswell, R.** (2014). The contribution of risky driving practices to work and non-work-related vehicle crashes.. In *International Health Data Linkage Conference*. Vancouver, Canada. Retrieved from <http://www.ihdlconference2014.org/abstract/Mitchell>
17. **Mitchell, R. J.**, Cameron, C., & **Bambach, M.** (2014). Research involving national data linkage in Australia: Perils and potential.. In *Australasian Mortality Data Interest Group Conference*. University of Sydney, Sydney.
18. **Mitchell, R. J.**, Lord, S., Harvey, L., & Close, J. (2014). Obesity and falls in older people: Fall risk and mediating factors.. In *6th Biennial Australian and New Zealand Fall Prevention Conference*. Sydney.
19. **Mitchell, R. J.**, **Williamson, A.**, & Molesworth, B. (2014). Identifying causal factors for medication and medical device-related adverse clinical incidents using a human factors framework.. In *International Conference on Applied Human Factors and Ergonomics*. Krakow.
20. **Mongiardini, M.**, **Mattos, G.**, **Grzebieta, R.**, **Bambach, M.**, McIntosh, A, Dal Nevo, R.,... Bozzini, S. (2014). Comparing vehicle rollover crash test rigs: JRS vs. DRoTS. In *Proceeding*

of *International Crashworthiness Conference 2014* (pp. 13 pages). Sarawak, Malaysia.
Retrieved from

http://www.researchgate.net/publication/268687844_Comparing_vehicle_rollover_crash_test_rigs_JRS_vs_DRoTS

21. **Mooren, L. E., & Williamson, A.** (2014). Why some truck drivers still don't use seatbelts.. In *Proceedings of the Occupational Safety in Transport Conference* (pp. 19 pages). Gold Coast, Queensland: CARRS-Q, Queensland University of Technology. Retrieved from <http://ositconference.com/program/2014-proceedings/>
22. **Mooren, L. E., Grzebieta, R., & Job, R. F. S.** (2014). Speed limit setting and the safe system principle.. In *Proceedings of the 2014 Australasian Road Safety Research, Policing & Education Conference* (pp. 11 pages). Melbourne. Retrieved from <http://arsrpe.acrs.org.au/index.cfm?action=main.paper&id=2943>
23. Scott-Parker B, Salmon P, Goode N, **Senserrick T.** Key players in the young driver road safety system: Perspectives and Partners. *2nd International Conference on Human Factors in Transportation*. Jagiellonian University, Krakow, Poland; July 19-23, 2014.
24. Scott-Parker, B., **Senserrick, T.**, Simons-Morton, B., & Jones, C. (2014). Higher-order instruction by professional driving instructors: A Naturalistic Pilot Study. In *Proceedings of the 2014 Australasian Road Safety Research, Policing & Education Conference* (pp. 13 pages). Melbourne, Australia. Retrieved from <http://arsrpe.acrs.org.au/index.cfm?action=main.paper&id=2914>
25. Stolle, C. S., **Mongiardini, M.**, Reid, J. D., & Faller, R. K. (2014). Testing and Simulation of Modified Breakaway Cable Terminal Trailing End Termination System.. In *TRB 93rd Annual Meeting Compendium of Papers* (pp. 20 pages). Washington DC. Retrieved from <http://trid.trb.org/view/2014/C/1287363>
26. Sukumar, D., Harvey, L., **Mitchell, R. J.**, & Close, J. (2014). The impact of remoteness on fall-related injury hospitalisations using linked data.. In *6th Biennial Australian and New Zealand Fall Prevention Conference*. Sydney.
27. Tahan, F. J., Digges, K., Kan, C. -D., **Grzebieta, R.**, & **Bambach, M.** (2014). Assessing chest injuries for different pitch angles and drop heights rollovers using strengthened roof. In *2014 IRCOBI Conference Proceedings - International Research Council on the Biomechanics of Injury* (pp. 41-50). Berlin, Germany: International Research Council on the Biomechanics of Injury. Retrieved from http://www.ircoibi.org/downloads/irc14/pdf_files/12.pdf
28. **Williamson, A.** (2014) Road safety research into policy: What can we do to make it better? Presented at *Road Safety Research Policing Education Conference*, Melbourne, 12-14 November, 2014.
29. **Williamson, A.**, Nguyen, H., Chung, AZQ. (2014) Understanding why people make errors in skilled behaviour. Presented at *Aviation Psychology Conference*, Melbourne, November, 2014.

Reports

1. **Bambach, M., Mitchell, R., Williamson, A., & Grzebieta, R.** (2014). *Analysis of the road crash characteristics of specific road user groups and injury modes..* UNSW: Transport and Road Safety Research.
2. **Hatfield, J., Boufous, S., & Grzebieta, R.** (2014). *Pedestrian and cyclist safety on shared paths: Observational field study and user survey.*
3. **Mitchell, R. J.** (2014). *Australian and New Zealand hip fracture hospitalisation trends: 2000-01 to 2011-12. Informing the development of the Australian and New Zealand Hip Fracture Registry.* Sydney: ANZHFR.

4. **Mitchell, R. J., & Bambach, M.** (2014). *Characteristics of road trauma involving Aboriginal people in NSW, 2001-2011..*
5. **Mitchell, R. J., & Bambach, M.** (2014). *Examination of narratives from emergency department presentations to identify road trauma, crash and injury risk factors..* Sydney: Transport and Road Safety Research, UNSW.
6. **Senserrick, T.,** McRae, D., Wallace, P., Regan, M., de Rome, L., Rees, P., & **Williamson, A.** *Pre-learner motorcyclist curriculum development: broad framework and learning goals.* Contract No. 8651: Stage 2 Deliverable. Report to VicRoads. Sydney NSW; July 2014.
7. **Senserrick, T.,** McRae, D., Wallace, P., Regan, M., de Rome, L., Rees, P., & **Williamson, A.** *Pre-learner motorcyclist curriculum development: detailed curriculum framework and approach.* Contract No. 8651: Stage 3 Deliverable. Report to VicRoads. Sydney NSW; October 2014.
8. **Williamson, A., & Friswell, R.** (2014). *An evaluation framework for a pilot of the Risk Classification System with an outer limit of 15.5 hours.*
9. **Williamson, A., Grzebieta, R., Job, R. F. S.,** Olivier, J., & **Bambach, M.** (2014). *Evaluation of the ACT Road Safety Camera Program.* UNSW: Transport and Road Safety Research.

Theses

1. **Mahaboon, J.** (2014). *An investigation into factors influencing hazardous material truck crashes.* (PhD Thesis). **Supervisor:** Grzebieta, Raphael.
2. **Patton, D. A.** (2014). *The biomechanical determinants of sports-related concussion: Finite element simulations of unhelmeted head impacts to evaluate kinematic and tissue-level predictors of injury and investigate the design implications for soft-shell headgear.* (PhD Thesis). **Supervisor:** Grzebieta, Raphael.



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