

Education

- 2015 Doctor of Philosophy (PhD)**
Machine and Vehicle Systems, Chalmers University of Technology
- 2012 Licentiate degree in Engineering (MSc)**
Machine and Vehicle Systems, Chalmers University of Technology
- 2016 Higher Education for University Teachers**
Chalmers University of Technology, Gothenburg, Sweden
- 2012 Medical Science**
Karolinska Institute, Department for Public Health Science
- 2004 Master of science in Engineering (MSc)**
Civil Engineering, Communication and Transport systems, Linköping University
- 1999 Vehicle Mechanics**
Swedish Armed Forces

Additional Education

- Accident investigation, Swedish Rescue Agency
- Basis environment education, SRA Consulting Services
- Collision safety, biomechanics, safety systems and accident reconstruction, TSRE AB
- Information searching in transport databases, VTI
- In-depth investigation of fatal accidents, Swedish Road Administration
- Accident reconstruction with computer software PC-Crash, DSD Linz Österrrike
- Accident investigation, Karlstad University
- Media training, Mediagruppen Marklund & Sandelin AB
- Ethics in global and public health research, Karolinska Institute
- To communicate science in different contexts, Karolinska Institute
- Writing science and information literacy, Karolinska Institute
- International Academic Assembly in Prato, Monash University Accident Research Center
- Challenges and opportunities of technology in sustainable development, Chalmers University
- Teaching, Learning & Evaluation, Chalmers University of Technology
- Project management - The Value Model, Chalmers University of Technology
- Human Anatomy and Physiology, Chalmers University of Technology
- Epidemiology and Integrated Safety, Chalmers University of Technology
- University Certificate in Forensic Collision Investigation, De Montfort University, UK
- Theory & Practice of Science, Chalmers University of Technology
- Supervision of Research, Chalmers University of Technology
- Negotiating effectively, Victorian Chamber of Commerce and Industry

Employment History

Current	Consultant Self-employed consultant Strategy Lead, Safe System Solutions Pty Ltd Technical Director, Lösningar Pty Ltd
2018-2019	Department of Transport, Victoria, Australia Project Director Road Safety Planning Technical Director, Road Safety Planning
2017-2018	VicRoads, Victoria, Australia Safe System Lead, Safe System Road Infrastructure Program, Manager Program & Planning, Safe System Road Infrastructure Program Manager Vehicle & Motorcycling Policy, Road User & Vehicle Access
2008-2017	Swedish Transport Administration Senior Road Safety Advisor
2005-2008	Swedish Road Administration Consulting Services Crash Investigator
2004-2005	Swedish Road Administration Road Safety Analyst

Expert Committees

European New Car Assessment Program (Euro NCAP) – Adjunct board member, WG Child Safety, Technical WG, Euro NCAP Advanced, Intelligent Speed Assist WG, Validating Vehicle Safety through Meta-Analysis, 2009-2017.

SAFER Management Team – Manager Vision Zero Academy, 2016-2017.

European Enhanced Vehicle Safety Committee – WG Accident studies 2006-2009.

European Road Accident Database (CARE) 2009-2012.

IRTAD Road Safety Performance Indicator (RSPI) 2009-2012.

Academic Associations

Chalmers University of Technology, Department of Vehicle Safety, Associated researcher, 2015-2017

Monash University, Monash University Accident Research Centre, Adjunct Research Fellow, 2017-2018

Student Supervision

Supervisor for civil engineer student Emely Knudsen in her thesis for a Master's degree at Luleå University of Technology. Thesis title "Trafikskador ur ett genusperspektiv", 2008.

Supervisor for civil engineer student Simon Sternlund in his thesis for a Master's degree at Linköping University. Thesis title "Correlation Between Pedestrian Injury Severity in Real-Life Crashes and Euro NCAP Pedestrian Test Results", 2011.

Supervisor for fil. kand. Maria Ohlin in her study of the effects on Automatic Collision Notification, 2013.

Co-supervisor for Master's students Nader Haidar and Jiling Li in their automotive engineering project regarding bicycle injuries, 2013.

Supervisor for Master student Jonathan Jonsson at Chalmers University of technology in his Master thesis in Complex Adaptive Systems. Title: The Effect of Advanced Automatic Collision notification (AACN) on Road Fatality Reduction in Sweden.

Supervisor for Master student Philip Nilsson and Sebastian Nilsson at KTH their Master thesis in Statistics. Title: Application of Poisson Regression on Traffic Safety Sweden.

Member of the confirmation panel for PhD student Mohammad Nabil Ibrahim, Monash University Accident Research Centre, Melbourne, Australia. Title of confirmation report; Mode Shift to Improve Transport Safety, 2018

Member of the confirmation panel for PhD student Nimmi Candappa, Monash University Accident Research Centre, Melbourne, Australia. Title of confirmation report; Exploring Wire Rope Barrier Performance, 2018

Associated Courses

Impact Biomechanics, Department of Applied Mechanics, Chalmers University of Technology, Gothenburg - Lecturer and assignment leader

Epidemiology and Integrated Safety, Department of Applied Mechanics, Chalmers University of Technology, Gothenburg - Lecturer

Automotive engineering project, Chalmers University of Technology, Gothenburg - Project co-supervisor

Safe System learning for tertiary engineering students, Course Curriculum development for Engineers Australia

Certificates and Additional Experiences

University Certificate in Forensic Collision Investigation

Higher Education for University Teachers

Universal Military Service in the Swedish Army, Swedish Armed Forces

Test driver for Passenger cars and Powered Two Wheelers

Awards

John W. Melvin Award for best paper in the 58th Stapp Car Crash Conference, third place. Nov 2014.

Conference Theme Award, Making Zero Happen, Australian Road Safety Conference. Oct 2018.

Languages

	Speaking	Reading	Writing
Swedish	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
German	Basic	Basic	Basic

Publications

Thesis for the degree of licentiate of engineering, MSc

A Method to Identify Future Potential of Vehicle Safety Technology. Department of Applied Mechanics, Chalmers University of Technology, Gothenburg, Sweden 2012.

Thesis for the degree of Doctor in Philosophy, PhD

Identifying the Potential of Combined Road Safety Interventions – A Method to Evaluate Future Effects of Integrated Road and Vehicle Safety Technologies. Department of Applied Mechanics, Chalmers University of Technology, Gothenburg, Sweden 2015.

Original articles, published or submitted (peer reviewed)

1. Rizzi M, Strandroth J, Tingvall C. The effectiveness of Antilock Brake Systems (ABS) on motorcycles in reducing real life crashes and injuries. *Traffic Inj Prev* 2009;10:479-487.
2. Strandroth J, Rizzi M, Sternlund S, Lie A, Tingvall C. The correlation between pedestrian injury severity in real life crashes and Euro NCAP pedestrian scores. *Traffic Inj Prev* 12:604-13. 2011
3. Strandroth J, Rizzi M, Olai M, Lie A, Tingvall C. The effect of studded tires on fatal crashes with passenger cars and the additional benefit of ESC. *Accident Analysis and Prevention* 2012;45:50– 60.
4. Strandroth J, Rizzi M, Kullgren A, Tingvall C. Head-on collisions between passenger cars and heavy goods vehicles: Injury risk functions and benefits of Autonomous Emergency Braking. In proceedings of the 2012 IRCOBI conference, Dublin, Ireland
5. Rizzi M, Strandroth J, Sternlund S, Tingvall C, Fildes B. Motorcycle Crashes into Road Barriers: the Role of Stability and Different Types of Barriers for Injury Outcome. In proceedings of the 2012 IRCOBI conference, Dublin, Ireland.
6. Strandroth J, Rizzi M, Sternlund S, Johansson R, Tingvall C. A new method of evaluating future impact of vehicle safety technology in Sweden, *Stapp Car Crash Journal*, volume 56, 2012.
7. Tingvall C, Krafft M, Kullgren A, Lie A, Rizzi M, Sternlund S, Strandroth J, Stigson H. The consequences of adopting a MAIS 3+ injury target for the EU, a comparison with fatalities and long term consequences targets. In proceedings of the 2013 IRCOBI conference, Gothenburg, Sweden.
8. Carlsson A, Strandroth J, Stockman I, Bohman K, Jakobsson L, Wenäll J, Gummesson M, Turbell T, Svensson M. Child car occupant fatalities in Sweden during six decades. In proceedings of the 2013 IRCOBI conference, Gothenburg, Sweden.

9. Ohlin M, Strandroth J, Lie A. Potential Safety Benefits of Automatic Collision Notification – A Case by Case Analysis. Proceedings of the ITS World Congress 2014, Detroit, US.
10. Svensson M, D'Addetta, Carlsson A, Ewald C, Luttenberger, Mayer C, Strandroth J, Thomasch E, Gutsche A J, Wismans J. Future Accident Scenarios Involving Small Electric Vehicles. Proceedings IRCOBI Conference 10-12 Sept 2014, Berlin, Germany.
11. Strandroth J, Sternlund S, Lie A, Tingvall C, Rizzi M, Kullgren A, Ohlin M, Fredriksson R. The Correlation between Euro NCAP Pedestrian Test Results and Injury Severity in Real-Life Crashes with Pedestrians and Bicyclists. Stapp Car Crash Journal 2014.
12. Ohlin M, Strandroth J, Tingvall C. Combined effects of speed reduction, vehicle frontal design, autonomous emergency braking and helmet use in reducing real life bicycle injuries. Proceedings of the International Cycling Safety Conference 2014, Göteborg, Sweden.
13. Fredriksson R, Fredriksson K, Strandroth J. Pre-crash motion and conditions of bicyclist-to-car crashes in Sweden. Proceedings of the International Cycling Safety Conference 2014, Göteborg, Sweden.
14. Strandroth J. Validation of a method to evaluate future impact of road safety interventions, a comparison between fatal passenger car crashes in Sweden 2000 and 2010. Accident Analysis and Prevention 76 (2015) 133–140.
15. Jonsson J, Strandroth J, Lubbe N. Benefit Estimation for Advanced Automatic Collision Notification (AACN) in Sweden. Paper presented at FastZero15, Gothenburg, Sweden.
16. Rizzi M, Strandroth J, Kullgren A, Tingvall C, Fildes B. Effectiveness of motorcycle antilock braking systems (ABS) in reducing crashes, the first cross-national study. Traffic Injury Prevention 2015; 16(2):177-83.
17. Rizzi M, Strandroth J, Holst J, Tingvall C. Does the improved stability offered by Motorcycle Antilock Brakes (ABS) make sliding crashes less common? In-depth analysis of fatal crashes involving motorcycles fitted with ABS. Traffic Injury Prevention 2016 Jan 13;0. Epub 2016 Jan 13.
18. Ohlin M, Strandroth J, Tingvall C. The Combined Effect of Vehicle Frontal Design, Speed Reduction, Autonomous Emergency Braking and Helmet Use in Reducing Real Life Bicycle Injuries. Safety Science, in press, 2016.
19. Strandroth J, Nilsson P, Sternlund S, Rizzi M. Characteristics of future crashes in Sweden – identifying road safety challenges in 2020 and 2030. In proceedings of the 2016 IRCOBI conference, Malaga, Spain.
20. Sternlund S, Strandroth J, Rizzi M, Lie A, Tingvall C. The effectiveness of lane departure warning systems – a reduction in real-world passenger car injury crashes. Traffic Injury Prevention, published online Sept 13 2016.
21. Nilsson P, Stigson H, Ohlin M, Strandroth J. Modelling the Effect of Injuries and Fatalities when Changing Mode of Transport from Car to Bicycle. Accident Analysis and Prevention 100 (2017) 30–36.
22. Lindman M, Isaksson-Hellman I, Strandroth J. Basic numbers needed for understanding the traffic safety effect of Automated Cars. Proceedings of the 2017 IRCOBI conference, Antwerp, Belgium.
23. Goldsmith P, Nieuwesteeg M, Logan D, Tingvall C, Strandroth J, Page-Smith J. Estimated fatality reduction by the use of Electronic Stability Control from 2016 fatal crashes. Proceedings of the 2017 Australasian Road Safety Conference, 10 – 12 October, Perth, Australia
24. Stokes C, Moon W, Strandroth J, Woolley J, Johansson N. Safe System learning for tertiary road transport engineering students. Proceedings of the 29th Australasian Association for Engineering Education Conference 2018, Hamilton, New Zealand.
25. Ding C, Rizzi M, Strandroth J, Sander U, Lubbe N. Motorcyclist injury risk as a function of real-life crash speed and other contributing factors. Manuscript accepted for publication in Accident Analysis & Prevention.
26. Strandroth J, Moon W, Corben B. Zero2050 – a planning framework to achieve zero road trauma by 2050. In proceedings of the World Engineering Conference, November 2019, Melbourne, Australia.

Other original papers, published or submitted

1. Krafft M, Kullgren A, Lie A, Strandroth J, Tingvall C. The effects of automatic emergency braking on fatal and serious injuries. In Proc 21st ESV Conference paper no O9-0419. Stuttgart 2009.
2. Thomas P, Welsh R, Lenguerrand E, Vallet G, Otte D, Strandroth J. Priorities for Enhanced Side Impact Protection in Regulation 95 Compliant Cars. In Proc 21st ESV Conference paper no O9-0156. Stuttgart 2009.
3. Strandroth J, Rizzi M, Sternlund S, Lie A, Tingvall C. The correlation between pedestrian injury severity in real life crashes and Euro NCAP pedestrian scores. In proceedings of the 23rd ESV Conference. Washington 2011.
4. Rizzi M, Strandroth J, Lie A, Johansson R. The potential of different countermeasures in reducing motorcycle fatal crashes: what in-depth studies tells us. In proceedings of the ESV Conference. Washington 2011.
5. Rizzi M, Strandroth J. The potential of autonomous emergency braking on powered two-wheelers. Presented at the AAAM conference in Paris 2011.
6. Kullgren A, Lie A, Strandroth J, Rizzi M, Tingvall C. The Importance of Age for Injury Severity Among Car Drivers and Pedestrians. In proceedings ESV Conference 2011, Washington, USA.
7. Lie A, Strandroth J, Tingvall C. Governmental status report, Sweden 2013. In proceedings of the 23rd ESV Conference 2013, Seoul, Korea.
8. Schram R, Williams A, van Ratingen M, Strandroth J, Lie A, Paine M. New NCAP Test and Assessment Protocols for Speed Assistance Systems, a first in many ways. In proceedings of the 23rd ESV Conference 2013, Seoul, Korea.
9. Rizzi M, Strandroth J, Kullgren A, Tingvall C, Fildes B. Effectiveness of motorcycle Antilock Braking Systems (ABS) in reducing crashes, a multi-national study. In proceedings of the 23rd ESV Conference 2013, Seoul, Korea.
10. Strandroth J, Rizzi M, Ohlin M, Eriksson J, Lie A. Analysis of different types of winter tires in rear-end injury crashes and fatal loss-of-control crashes with ESC. In proceedings of the 24th ESV Conference 2015, Gothenburg, Sweden.
11. Lie A, Strandroth J, Tingvall C. Governmental status report, Sweden 2015. In proceedings of the 24rd ESV Conference 2015, Gothenburg, Sweden.
12. Strandroth J, Rizzi M, Lie A. Real-world benefit of Adaptive headlights (ADHL) on passenger cars in Sweden. In proceedings of the 25th ESV Conference 2017, Detroit, Sweden.
13. Ydenius A, Kullgren A, Rizzi M, Stigson H, Strandroth J. Fatal Car to Moose Collisions: real-world in-depth data, crash tests and potential of different countermeasures. In proceedings of the 25th ESV Conference 2017, Detroit, Sweden.
14. Kullgren A, Ydenius A, Rizzi M, Stigson H, Strandroth J. The potential of infrastructure and vehicle countermeasures in fatal pedestrian and bicyclist accidents on rural roads - what can in-depth studies tell us? In proceedings of the 25th ESV Conference 2017, Detroit, Sweden.
15. Rizzi M, Kullgren A, Strandroth J, Ydenius A. Does All-Wheel-Drive (AWD) on passenger cars have any safety benefits on slippery roads? Analysis of real-world crashes involving AWD cars with ESC (Electronic Stability Control). In proceedings of the 25th ESV Conference 2017, Detroit, Sweden.
16. Strandroth J, Moon W, Corben B. Zero 2050 – A planning framework to achieve Zero with a date. Extended abstract in proceedings of the 2018 Australasian Road Safety Conference, Sydney, Australia.
17. Beer K, Moon W, Strandroth J. Safe System Assessment: delivering Safe System outcomes. Extended abstract in proceedings of the 2018 Australasian Road Safety Conference, Sydney, Australia
18. Young D, Nieuwsteeg M, Strandroth J. Road Safety Benefits of Level 3 and Level 4 Connected and Automated Vehicles and Fleet Transition. In proceedings of the 2018 ARSC, Sydney, Australia.

19. *Diminishing Effectiveness of the Blackspot Approach and New Alternatives. Abstract submitted to the 2020 ARSC, Melbourne, Australia.*
20. *Fernandes R, Strandroth J, Cavallo A, Banyer G Fry R. Case-By-Case Analysis of Current Fatality Trends to Estimate Future Residual Trauma in NSW. Abstract submitted to the 2020 ARSC, Melbourne, Australia.*

Overviews published in governmental publications

1. In-depth analysis of accidents with heavy goods vehicles, SRA publication 2009:2
2. Kommentarer till trafiksäkerhetsutvecklingen 2008, SRA PM
3. Djupstudieanalys av olyckor med tunga lastbilar, SRA publication 2008:136
4. Analys av trafiksäkerhetsutvecklingen 1997-2007, SRA publication 2008:5
5. Leg Injury Analysis – Patterns of Injury in CCIS (UK), STRADA (SE), Rhone register (FR) and GIDAS (DE) data. Analysis conducted for EEVC WG 12 Biomechanics.
6. Side Impact Analysis – WP1 Overview of Side Impacts, EEVC Working Group 21 Report May 2008
7. Side Impact Analysis – WP2 Car to Car Side Impacts, EEVC Working Group 21 Report May 2008
8. Side Impact Analysis – WP3 Side Impacts with Poles, EEVC Working Group 21 Report Feb 2008
9. Side Impact Analysis – WP6 Head injury causation in side impact accidents – Potential relevance of a FMH-Test, EEVC Working Group 21 Report Feb 2008
10. Trafikskador ur ett genusperspektiv – En kartläggning av män och kvinnors trafikskador inom olika färdssätt, SRA publication 2008:63
11. Mopedolyckor efter EU-mopedens införande, SRA publication 2007:123
12. Dödsolyckor med bilar utrustade med sidokrockkuddar, SRA publication 2006:55
13. Seniorolyckor med dödlig utgång, SRA publication 2006:74
14. Halkolyckor med dödlig utgång, SRA publication 2005:83
15. Motorcykelolyckor med dödlig utgång, SRA publication 2005:82
16. Bilbältesanvändning och förekomst av alkohol och droger i dödsolyckor: fördjupad analys av dödsolyckor i Södra Sverige åren 1997-2003. SRA publication 2005:69
17. Djupstudierapport över dödsolyckor i Södra Sverige 1997-2002, SRA publication 2003:136
18. Improved safety for motorcycle and moped riders. Joint strategy for the period 2010–2020, version 1.0, SRA publication 2010:043.
19. Målstyrning av trafiksäkerhetsarbetet – Analys av trafiksäkerhetsutvecklingen 2009, SRA publikation 2010:044
20. Boost the market for safer cars across the EU. European Transport Safety Council (ETSC), Road Safety Performance Index Flash 13 (2009).
21. Analysis of Road Safety Trends 2010, Management by Objectives for Road Safety Work, STA publication 2011:118
22. Analys av trafiksäkerhetsutvecklingen 2011, Målstyrning av trafiksäkerhetsarbetet mot etappmålen 2020, STA publikation 2012:098
23. Review of interim Targets and Indicators for Road Safety in 2010–2020, STA publication 2012:162
24. Ökad säkerhet på motorcykel och moped - gemensam strategi version 2.0 för åren 2012-2020. STA publikation 2012:166
25. Modeling And Testing for Improved Safety (MATISSE) of key composite structures in alternatively powered vehicles. Deliverable D1.1b Report on most likely crash scenarios for APVs against Heavy Vehicles (horizon in 2025).
26. Analys av trafiksäkerhetsutvecklingen 2012, Målstyrning av trafiksäkerhetsarbetet mot etappmålen 2020, STA publikation 2013:089.

27. Ökad säkerhet på fyrhjulingar - gemensam strategi version 1.0 för åren 2014-2020. STA publikation 2013:153.
28. eCall och tid till räddning vid trafikolycka - En analys av trafiksäkerhetspotentialen av automatiskt larm och snabbare räddning efter trafikolycka i Sverige, STA publikation 2014:056.
29. Analys av trafiksäkerhetsutvecklingen 2013, Målstyrning av trafiksäkerhetsarbetet mot etappmålen 2020, STA publikation 2014:068.
30. Kullgren A, Rizzi A, Strandroth J, Sternlund S, Tingvall C (2012) Vad vinner vi på att skrota ut gamla bilar utan antisladd? [What is the benefit of scrapping old cars without ESC?], PM for the 2012 Tylösand Conference, Tylösand, Sweden.
31. Säkrare cykling - gemensam strategi för år 2014-2020. STA publikation 2014:030.
32. Safer cycling - a common strategy for the period 2014-2020. STA publication 2014:035.
33. Analys av trafiksäkerhetsutvecklingen 2014, Målstyrning av trafiksäkerhetsarbetet mot etappmålen 2020, STA publikation 2015:073.
34. Ökad säkerhet på motorcykel och moped - gemensam strategi version 3.0 för åren 2016-2020. STA publikation 2016:032.
35. Analys av trafiksäkerhetsutvecklingen 2015, Målstyrning av trafiksäkerhetsarbetet mot etappmålen 2020, STA publikation 2016:077.
36. Increased Safety on Motorcycles and Mopeds - Combined strategy version 3.0 for the years 2016 – 2020. STA publication 2016:103.
37. Analys av trafiksäkerhetsutvecklingen 2016, Målstyrning av trafiksäkerhetsarbetet mot etappmålen 2020, STA publikation 2017:098.
38. Översyn av etappmål för säkerhet på väg till 2020 och 2030, med en utblick mot 2050. STA publication 2016:109.

Employment record relevant to the assignment

Period	Employing organization and position	Country	Summary of activities performed relevant to the Assignment
March 2020 – present	Self employed	Sweden	Senior Road Safety Advisor for the Asian Development Bank, The Red Cross and the Global Road Safety Partnership. Road Safety Strategy development in Australia, New Zealand.
Jun 2019 - present	Strategy Lead Safe System Solutions Pty Ltd	Australia	Advising and leading Road Safety Strategy development for clients mostly in Australia, New Zealand: - Crash data modelling, road safety scenario development and countermeasure development, target setting, Key Performance Indicator development. New South Wales, Australia. - Specialist advise in the development of Victoria's next road safety strategy, Victoria, Australia - Road Safety Modelling and forecasting, Victoria, Australia. - Assessment and validation of iRAP, Victoria, Australia - Supporting Road Safety strategy development, Hamilton City Council, New Zealand.
2018-2019	Project Director Department of Transport	Australia	Overseeing the development of Victoria's next road safety strategy. Strategy modelling, countermeasure development, engaging with governmental administrations and the minister's office.
2017-2018	Safe System Lead, Manager Program & Planning, Manager Vehicle & Motorcycle Policy VicRoads (State road authority)	Australia	Overseeing the strategic direction of Victoria's \$1.4 billion Safe System Road Infrastructure program.
2008-2017	Senior Road Safety Advisor Swedish Transport Administration	Sweden	Swedish representative in EuroNCAP, lead and development of the Swedish Vision Zero target management framework, lead accident analyst, national coordinator of in-depth crash investigation of fatal crashes.
2005-2008	Crash investigator Swedish Transport Administration Consulting Services	Sweden	In-depth crash investigation, reconstruction and research of fatal and serious crashes.