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## CV – Anders Lie, male, born 1959

### Key Qualification:

Anders Lie has a long experience as researcher and specialist within the field of traffic safety. His research has a special focus on accident analysis and vehicle safety question. Recent studies look at how to link evaluations of safety systems to models of safe traffic and to management systems.

Anders Lie is main supervisor for three PhD students

### Education

B.A. Architectural Conservation, Institute for Conservation, Göteborgs University 1983

Licentiate Degree, Faculty of Medicine, Karolinska Institutet, Stockholm 1995. (Title of thesis: Dose-response models in car accident analyses. Methods for deformation and intrusion measurements)

PhD. Faculty of Medicine, Karolinska Institutet, Stockholm 2012. (Title of thesis: Managing Traffic Safety: An Approach to the Evaluation of New Vehicle Safety Systems. Subject: Personal Injury Prevention with Focus on Work Life and Insurance Research)

Docent (Associate Professor) in Traffic safety with special reference to safety systems and safety implications of self-driving cars. The Department of Applied Mechanics, Göteborg 2014.

### Positions

#### Göteborg University, Institute for Conservation 1983-1986

- Research Assistant, working with photogrammetric recording techniques for conservation and recording of historical buildings and sites. Lecturing and being supervisor of student's thesis works in the field of architectural conservation

#### Metimur AB, Göteborg Sweden 1986-1989

- Specialist in photogrammetry. Focussed on close range photogrammetry. Project of special interest spans from recording of crash tested cars for Volvo Car Corporation to measurements of oral implants for Nobelpharma.

#### Alias AB, Göteborg Sweden 1989-1995 (Own private consulting business)

- Specialist photogrammetry, traffic safety with special focus on child restraints, on board measuring techniques and real life crash data collection. Close co-operation with Folksam research.

#### Swedish Transport Administration, Head Office, Borlänge Sweden, 1995 to date

- Specialist traffic safety, responsible for in depth studies of fatal crashes, active as Swedish representative in the Euro NCAP co-operation, multiple international engagements such as ESV steering committee, chairman EEVC WG16 etc.

#### Chalmers University of Technology, Department of Applied Mechanics. 2014 to date. (20% of full time)

- Adjunct Professor, Traffic safety with special reference to safety systems and safety implications of self-driving cars.



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### **Publications in peer review journals:**

1. Kullgren A, **Lie A**, Tingvall C. Photogrammetry for documentation of vehicle deformations - A tool in a system for advanced accident data collection. Accident Analysis and Prevention. Vol. 26, No. 1, pp. 99-106, 1994.
2. Kullgren A, **Lie A**, Tingvall C. Crash Pulse Recorder (CPR) - Validation in full scale crash tests. Accident Analysis and Prevention. Vol. 27, No. 5, pp. 717-727, 1995.
3. Kamrén B, v Koch M, Kullgren A, **Lie A**, Tingvall C, Larsson S, Turbell T. The protective effects of rearward facing CRS: An overview of possibilities and problems associated with child restraints for children aged 0-3 years. In Proc Child Occupant Protection Conf AAAM and STAPP car crash conf 1993:113-119.
4. **Lie A**, T Jemt. Photogrammetric measurements of implant positions, description of a technique to determine the fit between implants and superstructures. In: Clinical Oral Implants Research, 1994:5:p 30-36
5. Jemt T, Book K, **Lie A**, Börjesson T. Mucosal topography around implants in edentulous upper jaws. Photogrammetric three-dimensional measurements of the effect of replacement of a removable prosthesis with a fixed prosthesis. In: Clinical Oral Implants Research, 1994:5:p 220-228
6. Kullgren A, **Lie A**. Car collision accident data - validity and reliability. Journal of Traffic Medicine, Vol. 26 No 3-4 pp 77-89 1998
7. Krafft M, Kullgren A, **Lie A**, Nygren Å, Tingvall C. Soft tissue injury of the cervical spine in rear-end and frontal car collisions. Journal of Traffic Medicine. Vol. 25 Number 3-4, 1997. pp 89-96
8. Tingvall C, Johansson R, **Lie A**, Stenborg L. The Zero vision. In Recovery Vol 6 No. 3. pp 17-19 1996.
9. Jemt T., **Lie A.**, 1995. Accuracy of implant-supported prostheses in the edentulous jaw. Clinical Oral Implant Research 1995:6, 172-180.
10. **Lie A**, Tingvall C. How do Euro NCAP results correlate with real life injury risks – A paired comparison study of car-to-car crashes. Traffic Injury Prevention, 3:288-293, 2002.
11. Krafft M, Kullgren A, **Lie A**, Tingvall C. The risk of whiplash injury in the rear seat compared to the front seat in rear impacts . Traffic Injury Prevention, 4:136-140, 2003
12. Tingvall C, Krafft M, Kullgren A, **Lie A**. The effectiveness of ESP (Electronic Stability Programme) in reducing real life accidents. Traffic Injury Prevention Vol 5 No1 2004:37-41.



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13. Tingvall C, Krafft M, Kullgren A, **Lie A**. The effectiveness of ESP (Electronic Stability Programme) in reducing real-life accidents. *Traffic Injury Prevention*, Vol. 5:37-41 2004.
14. Krafft M, Kullgren A, **Lie A**, Tingvall C. The use of seat belts in cars with smart seat belt reminders – results of an observational study. *Traffic Injury Prevention*, 7:125–129, 2006
15. **Lie A**, Tingvall C, Krafft M, Kullgren A. The Effectiveness of Electronic Stability Control (ESC) in Reducing Real Life Crashes and Injuries. *Traffic Injury Prevention*, Vol. 7:1 pp38-43 2006.
16. **Lie A**, Kullgren A, Krafft M, Tingvall C. Intelligent Seatbelt Reminders. Do They Change Driver Seat Belt Use In Europe. *Traffic Injury Prevention*, 9:446–449, 2008
17. Tingvall C, Stigson H, Eriksson L, Johansson R, Krafft M, **Lie A**. The properties of Safety Performance Indicators in target setting, projections and safety design of the road transport system. *Accident Analysis and Prevention*. Vol. 2010, No. 42, pp. 372-376, 2010.
18. Kullgren A, **Lie A**, Tingvall C Comparison between Euro NCAP Test Results and Real-World Crash Data. 2010 *Traffic Injury Prevention*, 11: 6, 587 — 593
19. Strandroth J, Rizzi M, Olai M, **Lie A**, Tingvall C. The effects of studded tires on fatal crashes with passenger cars and the benefits of Electronic stability control (ESC) in Swedish winter driving. Submitted *Accident Analysis and Prevention*, Vol. 03/2012; No. 45 pp50-60. 2012
20. Sunnevång C, Boström O, **Lie A**, Stighson H. Census study of fatal car-to-car intersection crashes in Sweden involving modern vehicles. *Traffic Injury Prevention*, 2011, 12:333-338
21. **Lie A**. Nonconformities in real world fatal crashes - electronic stability control and seat belt reminders. *Traffic Injury Prevention*, 13:3, 308-314. 2012
22. Tingvall C, Ifver J, Krafft M, Kullgren A, **Lie A**, Rizzi M, Sternlund S, Stigson H and Strandroth J. The Consequences of Adopting a MAIS 3 Injury Target for Road Safety in the EU: a Comparison with Targets Based on Fatalities and Long-term Consequences. 09/2013; In proceeding of: Int. IRCOBi Conf. on the Biomechanics of Injury, ISSN: 2235-3151.
23. Ridella S A& **Lie A** (2013) Foreword, *Traffic Injury Prevention*, 14:sup1, S1-S1, DOI. Special Issue from ESV 2013.
24. Strandroth J, Sternlund S, **Lie A**, Tingvall C, Rizzi M, Kullgren A, Ohlin M, Fredriksson R. Correlation between Euro NCAP crash test results and injury severity in injury crashes with pedestrians and bicyclists in Sweden. *Stapp Car Crash Journal*, Vol. 58 (November 2014), pp. 213-231.



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25. Wismans J, Skogsmo I, Nilsson-Ehle A, **Lie A**, Thynell M, Lindberg G. Commentary: Status of road safety in Asia. *Traffic Injury Prevention*. 2016 Apr 2;17(3):217-25.
26. Fildes B, Keall M, Bos N, **Lie A**, Page Y, Pastor C, Pennisi L, Rizzi M, Thomas P, Tingvall C. Effectiveness of low speed autonomous emergency braking in real-world rear-end crashes. *Accident Analysis & Prevention*. Volume 81, August 2015, Pages 24–29
27. Fildes B, van Ratingen M, **Lie A**, Keall M, Tingvall C. A new Approach to Evaluating New Vehicle Safety Technologies using Meta-Analysis. (Peer reviewed). Proceedings of the 2015 Australasian Road Safety Conference, 14 - 16 October, Gold Coast, Australia
28. van Ratingen M, Williams A, **Lie A**, Seeck A, Castaing P, Kolke R, Adriaenssens G, Miller A. The European New Car Assessment Programme: A historical review. *Chinese Journal of Traumatology* 19 (2016) 63e69
29. Sternlund S, Strandroth J, Rizzi M, **Lie A**, Tingvall C. Effectiveness of lane departure warning systems – Reduction of real life passenger car injury crashes. *Traffic Injury Prevention*. 2017 Feb 17;18(2):225-229.
30. Ohlin M, Berg H-Y, **Lie A**, Algurén B. Long-Term Problems Influencing Health-Related Quality of Life after Road Traffic Injury - Differences between Bicyclists and Car Occupants. *Journal of Transport & Health*, (2214-1405). Vol. 4 (2016), p. 180-190