

# CV

Name: **Lars Ekman**  
Year of Birth: **1956**  
Position within Trafikverket: Traffic safety Specialist, Safety Strategist,  
Southern region



## KEY QUALIFICATIONS - LARS EKMAN

- Traffic safety
  - Traffic safety strategies
  - Accident data base systems
  - Traffic safety research and analysis
- Traffic Planning
  - Traffic safety strategies
  - Road and street design
  - Traffic safety audit
- Teaching
  - Teacher at Lund University
  - Seminar leader

### Education

- 1996 PhD in Engineering, Title of the thesis: *"On the Treatment of Flow in Traffic Safety Analysis - a non-parametric approach applied on vulnerable road users"*.
- 1988 Licentiate of Technology, Title of the thesis: *"Pedestrian risk at Zebra Crossings in Sweden"*, Lund Institute of Technology
- 1982 Master of Science in Civil Engineering, Lund Institute of Technology

## Career

- 2010 - Traffic safety expert at Swedish Transport Administration, Kristianstad, Sweden
- Strategic traffic safety work.
  - International contacts, NVF, CEDR
  - Planning of safety countermeasures
- 2009-2010 Traffic safety expert at Swedish Road Administration, Kristianstad, Sweden
- 2008-2009 Project Manager, Specialist, Traffic, Ramböll Sweden, Southern region.  
Current project involvements:
- Traffic planning at road nr19 in southern Sweden. It is a pilot project where the successful "2+1 roads" should be implemented on roads with slightly lower traffic volumes. The issues are to ensure that the expected traffic safety improvements are materialised. The special requirements for public transport and crossing pedestrians and bicyclists are investigated.
  - Analysing the effect of speed reducing countermeasures in the city of Huddinge.
  - Calculating the traffic safety effect of traffic safety countermeasures for the Swedish Road Administration.
  - Evaluating traffic safety problem in the city of Örnsköldsvik.
- 2002-2008 Traffic safety expert at Swedish Road Administration, Kristianstad, Sweden  
Some examples of duties and project involvements:
- Traffic Safety Analyses
  - Initiating Traffic Safety projects.
  - Traffic safety spokesman in issues regarding traffic safety. Supporting media with statements and accident statistics.
  - Updating regional accident statistics
  - In charge of In-Depth-Accident-Investigations.
  - Road safety audits in different stages in the road planning process.
  - In charge of the use of traffic safety countermeasures such as 2+1 (roads with mid-barrier and altering overtaking stretches).
- 1996-2002 Associated Professor, Department of Traffic Planning and Engineering, Lund Institute of Technology, Lund, Sweden  
Some examples of duties and project involvements:  
The main areas of research was:

- Methods and techniques for risk assessment
- Theories for communication between road-users' evaluation of safety measures with special reference to the safety of unprotected road-users.
- The safety effects of Zebra Crossings
- The use of The Swedish Traffic Conflicts Technique.
- Demonstration of the effects of integrated safety programs for entire jurisdictions, including the organizational aspects.
- The effects of controlling driving speeds via the vehicle
- The safety effects of the introduction of Road Transport Technology in the transportation system.

My main areas of teaching are:

- Traffic planning
- Traffic Safety and Environmental effects of traffic
- Accident-database systems
- The use of Problem Based Learning for civil engineers
- Conflict observer training

#### **INTERNATIONAL EXPERIENCE RECORD**

Country

Poland Traffic safety support in terms of collaboration between the Polish and Swedish Road Administration.

Turkey 1999 for 2 months as Consulting Specialist on the Traffic Conflict Technique for SweRoad. Reference person Per Genberg. As part a Traffic safety program for Turkey training of field observer in The Swedish Traffic conflict Technique was carried out. The technique could be used either as an accident surrogate or as an advanced and valid traffic behaviour evaluation technique.

South America and Central America Teacher at several courses in traffic safety. The courses where mostly financed by Sida but arranged by VTI and Lund University.  
These courses cover general traffic safety issues but in particular new countermeasures for increased traffic safety and the new viewpoint that the Swedish Vision Zero gives upon traffic safety. My role has been lecturer and tutor for the exercises.

Africa (Tanzania and Uganda) Teacher at two courses in traffic safety.  
These courses cover general traffic safety issues but in particular new countermeasures for increased traffic safety and the new viewpoint that the Swedish Vision Zero gives upon traffic safety. My role has been lecturer and tutor for the exercises.

- Sri Lanka 2001, Research project for Sida.  
The aim of the project was to use video recorded conflicts as a tool to illustrate the severity and complexity of different traffic safety problems. One general hard thing to explain is the difference between traffic jam and hazardous situations.
- Vietnam 2007, Teacher at a course in "Traffic Safety Management". Sida.  
This was a follow up on a five weeks course in Sweden. The course covers a wide range of Traffic Safety Management. The end part that was not in Sweden included a presentation of a paper by each participant. My role in this course was at this part to give feedback to the students work.

### Languages

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
English	excellent	excellent	good
Swedish	mother tongue	mother tongue	mother tongue
German	Fair	Fair	poor

## SELECTED PROJECTS

- 2009-        **The Swedis experiance of 2+1 roads**  
A short summary of the Swedish experience of the new road type "2+1 roads with cable barrier".  
Customer: The Danish Road Directorate
- 2009        **Traffic Safety Analyses in Örnsköldsvik**  
A small traffic safety investigation addressing the safety problem created by a national road passing trough the city centre of the town Örnsköldsvik in Sweden. The Swedish Traffic Conflicts technique was used as well as special designed speed measurements.  
Customer: The Swedish Road Administration.
- 2009        **Analyses of speed measurements**  
Analyses of speed measurements carried out at locations where speed reducing countermeasurements had been implemented. The counter measures was both physical measures and area wide speed regulations.  
Customer: The local authorities of Huddinge
- 2009-        **Traffic safety expert at Swedish Road Administration, Kristianstad, Sweden**  
Supporting the southern region with traffic safety expertise.  
Customer: The Swedish Road Administration
- 1991-1994    **The VRU-TOO** was a **DRIVE II** project dealing with new technology for vulnerable road users in traffic signal controlled intersections. ITS at University of Leeds was coordinator and I was heading the Swedish part from Lund University.
- 1989-1991    **An Intelligent Traffic System for Vulnerable Road Users (Commission of the European Communities, DRIVE I)**  
ITS at University of Leeds was coordinator and I was heading the Swedish part from Lund University.

## PUBLICATIONS

- Ekman L, (1996), *On the treatment of Flow in Traffic safety Analysis*, Inst för trafikteknik.
- Ekman L., (1997), *Fotgängares situation vid övergångsställe – en litteraturstudie. Inst för trafikteknik.*
- Ekman L., (1998), *Effekter av varningslampor i gatan – konfliktstudier och beteendestudier på tre platser i Helsingborg. Institutionen för trafikteknik*
- Ekman L., Kronborg P., (1995), *Traffic safety for pedestrians and cyclists at signal controlled intersections.* TFK.
- Ekman L., Smidfelt Rosqvist L., Westford P., (1996), Bulletin 138, *Trafiksystem för bättre stadsmiljö*, Inst för trafikteknik, LTH.
- Ekman, L (2000) *Sänkt hastighet i bostadsområden : önskan eller verklighet?* Bulletin 180, Department of Technology and Society, Lund University
- Ekman, L Hydén, C (2000) *30 km speed limits in Urban Areas.* Paper presented at Traffic Safety on Three Continents. Pretoria September 2000.
- ETSC (European Transport Safety Council) (1999) *Safety of pedestrians and cyclists in urban areas - a state of the art report* (<http://www.etsc.be/rep.htm>) co-author, Brussels
- Kronborg, P (Movea), Ekman, L, LTH (2002). *Fotgängarvänligare signalreglerade övergångsställen, delrapport fokus-grupper och intervjuer.* Institutionen för trafik och samhälle, Lund 2002.
- Peter Kronborg (Movea Trafikkonsult AB), Svante Berg och Lars Ekman (Vägverket) *Bättre trafiksignaler för gående och cyklister Delrapport 2: Kunskapsinhämtning, teknikutveckling och fältprov. Vägverket, Publikation: 2004:184*
- Vägverket, Olycksrapport Skåne 2002
- Vägverket, Djupstudier av dödsolyckor i södra Sverige 1997-2002. **Vägverket, Publikation 2003:136** (In-depth-accident-investigation in Southern Sweden)
- Vägverket, Olycksrapport Skåne 2003 (Report on current accident situation in the region)
- Vägverket, Olycksrapport Skåne 2004 (Report on current accident situation in the region)
- Vägverket, Svensson, Ekman, och Norrgård. *Bilbältesanvändning och förekomst av alkohol och droger i dödsolyckor. Fördjupad analys av dödsolyckor i södra Sverige åren 1997-2003. Vägverket, Publikation 2005:69* (In-depth-accident-investigation in Southern Sweden)
- Vägverket, Olycksrapport Skåne 2006 (Report on current accident situation in the region)
- Vägverket, Olycksrapport Skåne 2007 (Report on current accident situation in the region)
- Huddinge kommun. Resultat av hastighetsdämpning i Huddinge. (Analyses of speed reducing countermeasures) 2009