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**LUND UNIVERSITY**  
School of Economics and Management

Department of Statistics

## **SEMINAR**

Wednesday 25 January 2012 at 13.15 in room Alfa1-1048.

Jonny Olsson, Statistiska institutionen

*Visual field tests in clinical practice*

*In the seminar it will be discussed how visual fields are currently measured (automated perimetry) and how that relates to eye diseases, particularly glaucoma. During a visual field test much information is collected and an understanding and modeling of a subject's data collection can greatly improve the usefulness of a visual field test for diagnostic purposes. Ability to model the collected data and relate to a reference outside of the tested subject is important. Further this knowledge is a key to design of new test procedures (so-called test strategies). The author has been involved in development of statistical packages (STATPAC) for visual field analysis and test strategies (SITA), which are in worldwide clinical use. Some statistical models which are useful in estimation procedures for tested individuals - as well as the use of (and calculation of) reference values (and what references are needed) - will be briefly described.*

Welcome!