



CON AMORE  
Center on Autobiographical  
Memory Research



# Seminar on Research Tools

arranged by the Center on Autobiographical Memory Research

**Saturday, 30.10.2010, 10:00 – 13:00**

**1483, 533**

**Laura Winther Balling, CBS**

## **From my experimental toolbox: DMDX, Mix and mixed-effects regression**

I'll talk about two programmes that are useful for running experiments: DMDX for stimulus presentation and Mix that can help you pseudo-randomise your trials. Both have the great advantage of being free. To use DMDX, the main trick is to be able to construct an item file which tells DMDX how to run the experiment. At first sight, the item files look complicated, but I'll go through (some of the relevant) codes in the files, which should enable you to begin working with DMDX.

After these two suggestions as to how to collect data, I'll talk a bit about data analysis, presenting a method that I'm very excited about, namely mixed-effects regression modelling. If I have time, I'll also demonstrate bits of R, a free statistical tool in which these models can be run. I'll discuss the advantages of the mixed-effects regression approach compared to classical factorial (ANOVA) designs and analyses, including the increased statistical power and the possibility of simultaneously investigating a number of different variables.

Participation is free of charge, and everyone is welcome. Because space is limited you must register by sending a mail to [engosb@hum.au.dk](mailto:engosb@hum.au.dk).