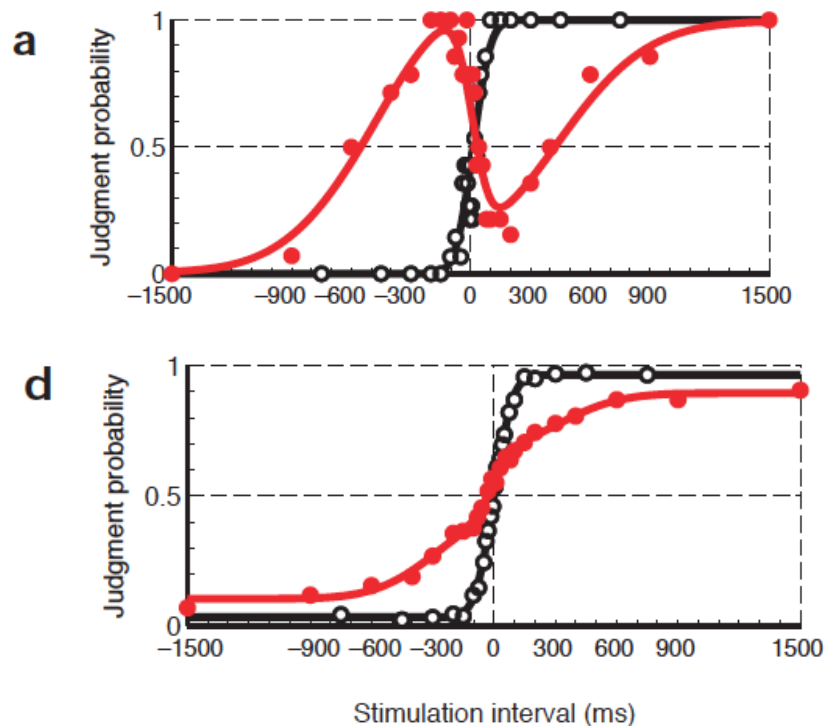


8 questions, total 30 points.

- 1) Is ecological psychology a theory or an approach? Explain why. (2pts)
- 2) According to Fitts, which parameter in his law should change during skill acquisition? What aspect of skill learning cannot be explained by this change? (5pts)
- 3)



The two panels plotted above are from figure 1 of Yamamoto & Kitazawa. Panel **a** shows data from subject K.K. and panel **d** shows the data averaged over all subjects. Although the red curves (crossed-hand condition) differ considerably between subject KK and the average subjects, one can argue that both red curves as being caused by the same mechanism. Give an argument. (3pts)

- 4) Discuss whether Harris & Wolpert assume in their theory the existence of a motor program according to the definition of Keele (5pts)
- 5) According to Wing & Kristofferson, there are two places where variability (noise) is introduced in repetitive timing: in the central clock and in the peripheral delays. Argue which of these two locations is responsible for the predicted negative autocorrelation between subsequent intervals. (3pts)
- 6) Explain what synergies are according to Ting & Macpherson, and how they are solving the redundancy problem. (5)
- 7) The variability in task performance can be split in a task-relevant and a task-irrelevant component. What predictions do van Beers et al. make for the lag-1 autocorrelation of the two components of variability? (2pts)

8) The figure is taken from a figure in the paper by Smith et al., and indicates the mechanism of motor adaptation that they propose. Explain what is on the axes, what the three curves indicate, and what their relation is. (5pts)

