

בראש שלך מוח?



*You are invited to a guest seminar*

On Monday, January 22<sup>nd</sup> 2012, 10:15

**Dr. Sharon Gilaie-Dotan**

Institute of Cognitive Neuroscience

University College London, UK

Will talk about

Perception and visual  
motion

## Host: Prof. Kobi Rosenblum Place: Hall 101, Student House

We live in a highly dynamic visual world where we constantly need to identify and react to moving objects around us, whether for survival (“watch out for that car!”) or for social purposes (“what did her gesture mean?”). While our visual system usually succeeds in overcoming this complex computational task, it is a major scientific challenge to understand how recognition of objects in motion is achieved. For example, it is not clear what the role of an object’s motion is in this recognition process (could we identify people by their gait but not a specific ball according to its spin?).

Here I will describe a series of complementary studies I have done that address this question including psychophysical, structural MRI, functional MRI and neuropsychological studies involving either healthy individuals or developmental and brain damaged patients.

These studies provide converging evidence for a tight inter-dependence between motion perception and non-biological object perception mechanisms. On the other hand, they reveal that recognition based on biological motion seems to be independent of common object perception mechanisms. New insights about brain structures involved in these perceptual mechanisms will be presented.

To conclude, I will discuss future directions in this field.