

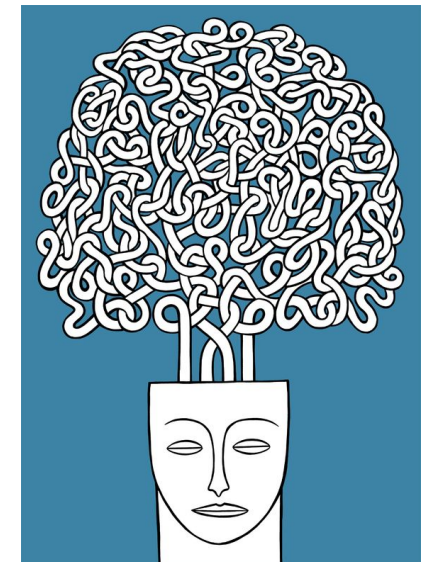
# AFFECTIVE NEUROSCIENCE AND PSYCHOPHYSIOLOGY

## COLLOQUIUM

### The Developing Visual Brain - from Newborns to Numeracy

Janette Atkinson & Oliver Braddick  
(University College London, Oxford University)

Visual development forms the basis of social and cognitive development in the first years of life. We will illustrate some key developments with a short video. We have tracked the development of visual abilities in infants and young children, to provide a unique window into the developing visual brain, both typical and atypical. Our work has helped to establish the major transition from a largely subcortical visual brain system at birth to the characteristic mechanisms of cortical vision and their control over subcortical visual responses. We have developed novel infant-friendly tests, both cortical event-related potentials measures and behavioural, to identify delays in visual development in the first year of life which are important for pattern, movement, depth perception, the cortical control of attention shifts and the timing of the onset of visuomotor and visuo-cognitive milestones. These measures have proved to be sensitive indicators of the effects of early brain injury and premature birth in predicting later neurocognitive outcomes.



Thursday,  
12th  
October  
2017

17.00-19.00

GEMI, room 1.134, Goßlerstr. 14, Göttingen

