LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

Lehrstuhl Sozialpsychologie
Department Psychologie
Fakultät Psychologie und Pädagogik

Psychology in the 'Digital Age'

On behalf of the Department of Psychology
we are very happy to invite you to the following guest lecture:

" Towards a mechanistic understanding of the human subcortex "

Prof. Dr. Birte Forstmann
Amsterdam Brain and Cognition Center, University of Amsterdam,
Amsterdam, Netherlands

MONDAY, 03.02.2020, 12 – 14 (c.t.)

LEOPOLDSTR. 13, ROOM 1310

Today only seven percent of the subcortical structures listed by the Federative Community on Anatomical Terminology (FCAT, 1998) are depicted in available standard MRI-atlases (Alkemade, Keuken, & Forstmann, 2013). As a consequence, the remaining 423 subcortical structures cannot be studied using automated analysis protocols available for MRI and therefore require trained anatomists for the study of subcortical brain areas: The human subcortex is notoriously difficult to visualize and analyze with functional magnetic resonance imaging.

In this talk, exciting technical advances are presented that allow charting terra incognita; the human subcortex. Closing the knowledge-gap of the human subcortex has already resulted in the re-evaluation of prominent models in the cognitive neurosciences such as the functional role of cortico-basal ganglia loops in decision-making. I will discuss the emerging possibilities of novel human neuroanatomical approaches and directions for the incorporation of these data within the field of model-based cognitive neuroscience.

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