



Verwaltung

Stellenausschreibung 43/2016

16.12.2016/hs/IE

The project „Cognitive and Neural Dynamics of Memory Across the Lifespan (CONMEM)” at the Max Planck Institute for Human Development, Center for Lifespan Psychology (Director: Prof. Dr. Ulman Lindenberger), is seeking applications for a

Postdoctoral Research Position (E 13 TVöD; 39 hours/week)

Funding for the postdoctoral position is available for up to 24 months. The position is available from February 1, 2017 or later.

Job Description

The postdoctoral researcher (m/f) will pursue new conceptual, empirical, and data analytic approaches (e.g., Karch et al., *NeuroImage*, 2015) for merging cognitive and neural process models at the within-person level (“personalized cognitive neuroscience”). Specifically, the successful candidate (m/f) will work with a data set of dense within-person measurements of both behavioral and EEG data in the context of a working memory task. He / she will analyze the data, develop new combined modeling approaches, and prepare scientific manuscripts for publication. In addition, follow-up experiments should be planned and conducted. The postdoc (m/f) will supervise students that assist during data analysis and data collection. There are no formal teaching requirements.

Requirements

We are searching a postdoc (m/f) with a strong interest in memory, cognitive modeling, and neuroscience. A successful applicant (m/f) needs to hold a doctoral degree in psychology, cognitive neuroscience, or related fields. Applicants should have a solid background in cognitive / computational / statistical modeling, experience with conducting experimental research, hands-on knowledge in at least one neuroimaging method (preferably EEG), and documented skills in at least one programming language (preferably Matlab). In addition, the ability to work independently as well as a high proficiency of the English language is required. Experience with age-comparative studies, advanced EEG / fMRI analyses, and a strong publication record are an advantage.

Our group

The CONMEM project (PIs: Dr. Myriam C. Sander & Dr. Markus Werkle-Bergner) investigates lifespan changes in memory functioning on neural and cognitive levels, with a focus on working and episodic memory (see Sander, et al., *Neurosci. Biobehav. Rev.*, 2012; Shing, et al., *Neurosci. Biobehav. Rev.*, 2010). Future research will advance a multi-modal imaging approach (EEG source imaging in combination with structural and functional MRI) to uncover lifespan differences in rhythmic neural activity related to perception, attention, and memory (e.g., Werkle-Bergner et al., *Neurosci. Biobehav. Rev.*,



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2006). We have access to state-of-the-art EEG-Labs, a 3T MR scanner, TMS, and eye tracker. Our research group is located at the Max Planck Institute for Human Development (MPIB) in Berlin with an international working atmosphere. No German language is required for working at the MPIB. In addition, a large community of Berlin neuroscientists provides great opportunities for scientific exchange. For informal inquiries and further information, please contact: Dr. Markus Werkle-Bergner (werkle@mpib-berlin.mpg.de)

The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

Furthermore, the Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

To apply, please send (as ONE FILE and via email) a statement of research interests, a CV, a copy of relevant certificates, (p)reprints of two publications, and a list of two references to Dr. Markus Werkle-Bergner, MPI for Human Development, Lentzeallee 94, 14195 Berlin (werkle@mpib-berlin.mpg.de) preferably by January 15th 2017. Later applications will be considered until the position is filled.

Signed Dr. Brigitte Merz