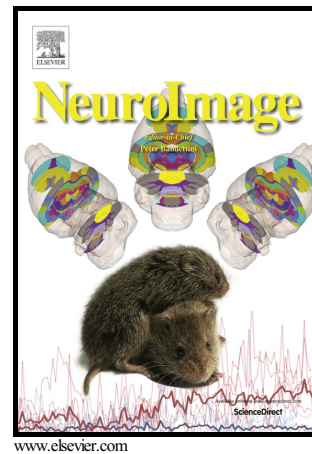


## Author's Accepted Manuscript

Sliding-window analysis tracks fluctuations in amygdala functional connectivity associated with physiological arousal and vigilance during fear conditioning

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**Sliding-window analysis tracks fluctuations in amygdala functional connectivity associated with physiological arousal and vigilance during fear conditioning**Blazej M. Baczowski<sup>a,b,c,d\*</sup>, Tom Johnstone<sup>e</sup>, Henrik Walter<sup>a</sup>, Susanne Erk<sup>a</sup>, Ilya M. Veer<sup>a\*</sup><sup>a</sup> Department of Psychiatry and Psychotherapy, Charité - Universitätsmedizin Berlin, Campus Mitte, Berlin, Germany<sup>b</sup> Max Planck Institute for Human Cognitive and Brain Sciences, Max Planck Research Group for Neuroanatomy & Connectivity, Leipzig, Germany<sup>c</sup> Department of Psychology, Leipzig University, Leipzig, Germany<sup>d</sup> International Max Planck Research School NeuroCom, Leipzig, Germany<sup>e</sup> Centre for Integrative Neuroscience and Neurodynamics, Department of Psychology, University of Reading, Reading, United Kingdom

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**Abstract**

We evaluated whether sliding-window analysis can reveal functionally relevant brain network dynamics during a well-established fear conditioning paradigm. To this end, we tested if fMRI fluctuations in amygdala functional connectivity (FC) can be related to task-induced changes in physiological arousal and vigilance, as reflected in the skin conductance level (SCL). Thirty-two healthy individuals participated in the study. For the sliding-window analysis we used windows that were shifted by one volume at a time. Amygdala FC was

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