



PhD position in Cognitive Neuroscience

Project: *Brain connectivity patterns and neural oscillations associated with sound-induced emotions and mental states*

3.5-year PhD contract (ERC project).

Principal Investigator: Prof. Dr. Carles Escera

A 3.5-years PhD position is offered in the **Brainlab-Cognitive Neuroscience Research Group** (Barcelona, Spain; PI: **Carles Escera**; www.ub.edu/brainlab) to investigate brain connectivity patterns and neural oscillations associated with emotions and mental states induced by sound.

This position is financed by the ERC Advanced Grant "*ARTSOUNDSCAPES: the sound of special places: exploring rock art soundscapes and the sacred*" (<https://www.ub.edu/artscoundscapes/>). The project aims at investigating the acoustics of special places (rock art sites), and how these acoustics may have determined their choice in early hunter-gatherers and agricultural societies by their particular echoes and reverberations. Specifically, we aim to test whether these acoustics, when convoluted with ritual songs, music and other sounds (e.g., nature generated) may induce particular emotional and mental states (e.g., such as trance, altered states of consciousness, meditation-like) and the associated patterns of brain activity as revealed by oscillatory and connectivity analysis of the EEG.

Candidates must hold a Master's degree (or equivalent) in cognitive or computational *neuroscience*, *psychology*, *cognitive sciences*, *biomedicine*, *engineering* or related field

Requirements: **1]** 300 ECTS completed (at least 60 ECTS in a Master degree), **2]** Strong motivation for science and experience with EEG experimental designs and data analysis, **3]** computer skills (e.g., Matlab, Python, Praat)

Applicants please send **1)** Letter of motivation, **2)** CV, and **3)** One or two academic letters of reference by email to Dr. Carles Escera at cescera@ub.edu [IMPORTANT: state **subject:PhD EMO**]

Starting date: FEB/MARCH 2020 [deadline for applications: January 31th, 2020]

