

PhD position in Auditory Cognitive Neuroscience

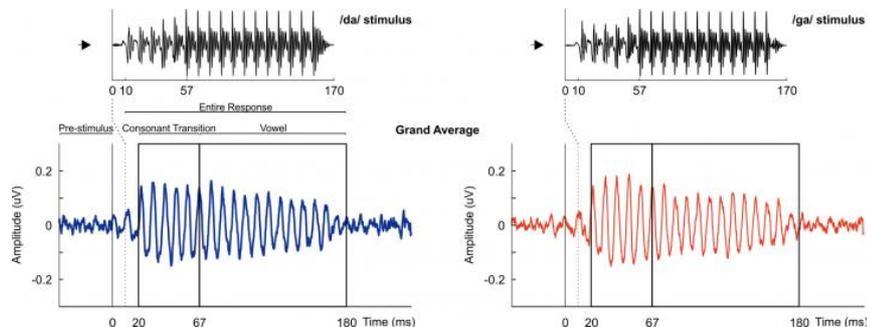
The **Brainlab-Cognitive Neuroscience Research Group** [www.ub.edu/brainlab]
invites applications for a **4-year PhD contract (FPI)**.

Principal Investigator: Prof. Dr. Carles Escera

The PhD position is financed by the Spanish Ministry of Science (*Contratos para la Formación de Doctores* –old FPI program; call 2019) attached to the project **The Frequency-Following Response (FFR) in newborns and its role as a potential biomarker for neurocognitive development**, (PGC2018-094765-B-I00), and it is part of an ambitious research program addressing the **encoding of speech sounds in the newborn's brain** ([read more](#)), which is being carried out in collaboration with the [Sant Joan de Déu Barcelona Children's Hospital](#). The major goal of this program is to establish the *Frequency-Following Response (FFR)* ([read more](#)) as a potential biomarker of language achievement, reading abilities and neurodevelopmental success in babies born at risk for neurocognitive impairment, with fetal growth restriction or prematurity.

In the present project, we aim at establishing the neurodevelopmental trajectory of the FFR during the first year of life with regard the maturation of the auditory pathway and cortex as evaluated by means of diffusion and volumetric MRI.

The successful candidate will join the Brainlab to carry out his/her PhD thesis under the supervision of the PI of the project. Main duties will be to design, implement and carrying out the FFR recordings and behavioral assessment at birth, 3, 6 and 12 months of age, as well as analyzing the FFR and the MRI data in collaboration with the project team members at the Brainlab and the Sant Joan de Déu Hospital



Candidates must have a Master's degree (or equivalent) in *neuroscience, speech and language pathology, psychology, cognitive sciences, biology, biomedicine, engineering* or related field

The successful candidates will join the [PhD Program in Biomedicine](#) of the University of Barcelona through a competitive and prestigious [Spanish FPI](#) fellowships.

Requirements: **1]** EU citizenship, **2]** 300 ECTS completed (at least 60 ECTS in a Master degree), **3]** the highest academic marks, **4]** computer skills (e.g., Matlab, Python, Praat)

Applicants should send **1]** a letter of motivation, **2]** CV, and **3]** an official transcript of grades (in [ECTS format](#)) by email to Dr. Carles Escera at cescera@ub.edu [**subject:** PhD – Escera]
Recommendation letters are also welcome

Applications will be processed until the position is filled [post data: June 4th, 2019]