

Call for candidates: PhD project **“The neuronal bases of voice information processing studied using machine learning and primate electrophysiology”**

We invite applications from candidates to a PhD project to be presented in the annual PhD call by the Institute of Language, Communication and the brain (<https://www.ilcb.fr/>) in Aix-Marseille University, in which 3 PhD grants will be awarded on a competitive basis.

The successful candidate will be co-supervised by Prof Pascal Belin (Institut de Neurosciences de la Timone, Marseille <https://neuralbasesofcommunication.eu/>) and Prof Thierry Artières (Laboratoire d’Informatique des Systèmes, Marseille <https://pageperso.lis-lab.fr/thierry.artieres/>). The project aims to measure, via multi-electrode arrays implanted chronically in the auditory cortex of monkeys, the neuronal activity evoked by a large array of complex sounds, and analyze that neuronal activity using machine learning tools, particularly deep-learning, to better understand the neurocognitive architecture underlying cerebral voice processing in primates. This project is part of a larger ERC-funded project entitled “Comparative Studies of Voice Perception in Primates” (COVOPRIM).

The successful candidate will have a Master’s degree or equivalent, strong interest and/or background in machine learning and deep learning, strong interest in Neuroscience and strong motivation to work with primates. He/she will be registered at Ecole Doctorale 62 at Aix-Marseille University (<https://ecole-doctorale-62.univ-amu.fr/>), embedded in the everyday activity of the two co-supervising teams, as well as in the PhD program of ILCB (<https://www.ilcb.fr/education/phd-program/>).

Please send your Expression of Interest and CV to pascal.belin@univ-amu.fr and thierry.artieres@univ-amu.fr **before June 1st, 2022**