



MASTER 2 Fundamental and Clinical Neurosciences

Internship proposal 2023-2024

(internship from January to June 2024)

Host laboratory: CRNL - Centre Hospitalier Le Vinatier, Bâtiment 452, 95 boulevard Pinel, 69500 Bron

Host team : CoPhy team - <https://www.crnl.fr/fr/equipe/cophy>

Internship supervisors : Anne Kösem – Chargée de Recherche – anne.kosem@inserm.fr

Project title : Temporal statistics in audition and speech

Project summary : For humans and other animals, predicting the timing of sensory events is essential for daily behavior. The objective of this project is to understand how we process complex forms of temporal regularities that are present in natural auditory stimulation such as music or speech. Using behavioral and/ or EEG experimentation, the project aims at providing new insights on the brain mechanisms underlying the processing of complex temporal information in audition and speech in particular, and the role of these mechanisms in language comprehension.

3-5 recent publications :

PA Bonnet, M Bonnefond, A Kösem (2023) [What is a rhythm for the brain? The impact of contextual temporal variability on auditory perception](#) bioRxiv, 2023.04. 13.536746

A Kösem, B Dai, JM McQueen, P Hagoort (2023) [Neural tracking of speech envelope does not unequivocally reflect intelligibility](#) NeuroImage 272, 120040

B Dai, JM McQueen, R Terporten, P Hagoort, A Kösem (2022) [Distracting linguistic information impairs neural tracking of attended speech](#) Current Research in Neurobiology 3, 100043

Please send your proposal to marion.richard@univ-lyon1.fr for publication on the Master of Neuroscience website.