

Curriculum vitae

Coumarane TIROU

30 rue Joseph Chalier
69008 Lyon
0695939930
coumarane.tirou@univ-lyon1.fr

Education

2022 – present	Ph. D. in Cognitive Neurosciences , Lyon Neurosciences Research Center (CRNL)
2020 – 2022	M.A., Fundamental and Clinical Neurosciences , Claude Bernard Lyon 1 University (UCBL)
2017 – 2020	B.A., Biology , Claude Bernard Lyon 1 University (UCBL)

Research experiences

Jan – Feb 2021	Student Internship MEMO team – Lyon Neurosciences Research Center (CRNL) <i>Research on the cognitive neuroscience behind implicit statistical learning.</i> <i>Research on the possible interactions between neuropsychological tests when assessing executive functions.</i>
Jan – July 2022	Student Internship EDUWELL team – Lyon Neurosciences Research Center (CRNL) <i>Research on representational change as a brain mechanism underpinning sequential/statistical learning.</i> <i>Research on neural replay as a brain mechanism underpinning higher-order (sequence) learning.</i>

Relevant skills

- **Non-invasive brain stimulation:** experience in administrating repetitive transcranial magnetic stimulation (TMS)
- **Magnetoencephalography (MEG):** experience in administrating, recording, and analyzing MEG data

- **Electroencephalography (EEG):** experience in administrating, recording, and analyzing EEG data
- **Neuropsychological tests:** experience in administrating and analyzing standardized neuropsychological tests (Wisconsin sorting card test, Go/ No-go test, fluency task, counting span task, Attentional Network Test, verbal fluency tasks).
- **Programming skills:**
 - Python: good level of programming skills
 - Data preprocessing (ICA, PCA, Epochs generation)
 - Multivariate pattern analysis (MVPA)
 - Representational similarity analysis (RSA)
 - Advanced statistical analysis
 - Figure plotting (Matplotlib, Seaborn)
 - **Statistical analysis skills:** good level of data analysis skills for behavioral data such as reaction times and accuracy in R, SPSS, and JASP.

Languages

- French: native proficiency
- Tamil: native proficiency
- English: professional working proficiency
- German: elementary level proficiency

Non-scientific interests

- **Martial arts** (Karate, Japanese kickboxing)
- **Fitness**
- **Swimming**
- **Cinema** (American, French, Asian)
- **Music** (Hip-hop, Alternative, Electronic, Rock, Classical)