Post-doctoral position in Developmental Sensorimotor Neuroscience

Lab: DANC team, CNRS Institut des Sciences Cognitive, Marc Jeannerod UMR5229, Universite de Lyon 1
Workplace: l'Institut des Sciences Cognitives, Marc Jeannerod, Bron, France
Starting date: September 2021. Position open for 2 to 3 years
Funding: European Research Council (MOBETA project)
Contact: James Bonaiuto, james.bonaiuto@isc.cnrs.fr

The Decision, Action, and Neural Computation (DANC; http://danclab.com) laboratory at the Institute of Cognitive Sciences, Lyon, (ISC; http://isc.cnrs.fr) is searching for a postdoctoral researcher to work on an ERC-funded project examining the development of reaching and grasping in relation to structural brain connectivity and frequency-specific sensorimotor neural activity. This project will use high density EEG, MRI and DTI, and markerless tracking of arm/hand kinematics with a longitudinal cohort of infants in their first year of life. The successful candidate will primarily be responsible for overseeing EEG and MRI data collection, analyzing EEG data from high density EGI systems and three dimensional kinematics, working on the application of advanced analyses to infant EEG data, writing scientific papers and participating in the intellectual life of the lab.

Qualifications
• Ph.D. in neuroscience, psychology or related field
• Experience conducting experiments with and analyzing data from infant populations. Experience with EGI high density systems in particular is a plus
• Autonomy in programming in MATLAB or Python
• Experience in using EEG and MRI analysis software (EEGLab, MNE, SPM, Fieldtrip …)
• Knowledge of brain oscillations and signal processing
• Experience with computer vision and analysis of movement kinematics is a plus
• Fluency and solid writing skills in English are expected. French is absolutely not a requirement, but would be beneficial

Application
Candidates are invited to email a motivation letter, brief summary of PhD research, CV, and contact information for 2-3 references.
Applications should be received before July 2021.