

## Postdoctoral Position in Human-Robot Interaction at INSERM U846, Lyon, France

**Laboratory:** SBRI (INSERM/University Lyon 1), Lyon, France

**Department:** Cortical Networks for Cognitive Interaction

**Duration:** 12 months (starting as soon as possible)

**Topic:** Investigation of human-robot interaction using a super Wizard of Oz platform



In the frame of the SWoOZ ANR French national project, the Cortical Networks for Cognitive Interaction team of the Stem-cell and Brain Research Institute invites applicants interested in a postdoctoral position that focuses on issues related to human robot interaction.

We have developed a research platform to control in real-time the (humanoid robot) iCub's movements from a confederate's movements. This platform is used as a super Wizard of Oz setup (SWoOZ) to study human-robot interaction. Naive subjects can interact with the humanoid robot thinking it is completely autonomous whereas in fact it is controlled in real-time by a confederate (the wizard). Manipulations can be applied to any specific robot behavior in real-time, for instance damping head movements, while preserving intact the rest of the behaviors. The importance of each manipulation can be investigated parametrically.

The successful candidate will participate in developing new paradigms of human-robot interaction with the SWoOZ platform and in conducting human-robot interaction experiments. There will also be the opportunity to extend these behavioral methods to brain imaging (EEG, fMRI).

The ideal candidate will have (1) a PhD degree in Robotics, Cognitive Sciences or a related field and (2) experience in conducting human-robot and/or human-avatar interaction research. Experience with fMRI and/or EEG would be a plus. Fluency and solid writing skills in English are expected.

Interested candidates should send their CV with a full list of publications and a statement of research interests (1-2 pages) to Guillaume Gibert: [guillaume.gibert@inserm.fr](mailto:guillaume.gibert@inserm.fr)

More information about the project can be found at: <http://swooz.free.fr/>