

**PARTICIPANT FORM for the SUMMER SCHOOL****Constructivism and Enaction****A new paradigm for Cognitive Science****FIRSTNAME** : Jean-Charles**NAME** : Quinton**I. – SITUATION**Status :  University teacher     Research scientist     Thesis student     Post-doc     Other :

University/ Laboratory : ENSEIHT-IRIT

Website labo/perso : <http://www.enseciht.fr/~quinton/> (en cours de construction)

Special information(s) (article, scientific responsibility, participation to research projects, other...) :

**III. – RESEARCH THEME***Please indicate briefly (10 lines max) your themes of research, and 4 or 5 key words*

My doctoral studies are aimed at implementing sensori-motor schemes as described by Jean Piaget into simple programs and algorithms. Especially we (the little group in which I'm involved) try to test and validate assimilation/accomodation concepts as well as more general interactivist principles. We try to keep a scope in the fields of psychology and biology as wide as possible, even if we work in a computer science laboratory.

My current interest is the synchronization of internal processes anticipating the environment dynamics and patterns. Rhythm and music recognition is a perfect application for anticipation and most of interactivist principles work fine, but I'll try to extend this work to continuous perception and vision during my thesis (vision as a more obvious active and proprioceptive system, using saccadic movements for example).

Keywords : interactivism, perception, Piaget, sensorimotor, dynamics

### **III. – VIDEOS AND EXPERIMENTAL MATERIAL**

*Moments of relaxation might be the occasion to share and show original scientific video documents (not too long) or experimental material (which could be used by all the participants). A video party and an experimental demonstration session have been planned. Could you indicate video or experimental material you would like to present.*

**Videos** : I have no such material at the moment

**Experimental demonstration** :