- **Missions:**

The goal of this thesis is to formalize dialogue models in higher-order logic, by exploiting and adapting the dynamic logic introduced in [2] and developed in [5]. To this end, the candidate will first review the state of the art in dialogue modeling, by studying the relevant literature. She will then synthesize notions of dialogic context for the case of cooperative dialogues. Next, she will adapt her models to the case of non-cooperative dialogues. Finally, she will apply her models to study a corpus of pathological dialogues between patients and their psychiatrists [8].

- **Bibliography:**


- **Skills and profile:**

  Required qualification: Master in Computer Science, Cognitive Science, or equivalent.  
  Desired skill: Elementary knowledge of lambda-calculus and type theory. Training in computational linguistics.

- **Additional information:**

  Supervision and contact:
  
  Maxime Amblard (https://members.loria.fr/MAmblard/)
  Philippe de Groote (https://members.loria.fr/PdeGroote/)

  Duration: 3 years

  Starting date: Oct. 1st 2017