

# Biomedical Discussion Group

## “Technology and Older Adults: Assisting Activities in the Home. Overview of intelligent systems to support aging-in-place”

Thursday March 16, 2016  
2:30 –3:30 pm, Science Teaching Complex (STC) Room 1019

### **Dr. Emilie M. D. Jean-Baptiste,**

Postdoctoral Fellow, Dept. of Occupational Therapy / University of Toronto, Toronto Rehabilitation Institute

#### **Abstract:**

People suffering from dementia experience difficulties completing their daily self-care activities. The resulting loss of independence makes them rely on caregivers to help them go through their daily routine. However, such reliance on caregivers may conflict with their need for privacy and willingness to keep a control over their life. Therefore, there is a need for technology that can provide assistance automatically. The talk will focus on the assistive system named COACH and the advantages of its novel architecture.

#### **Biosketch:**

Emilie received her BSc degree in Electrical, Electronic and Computer Engineering from the University of Bordeaux, France (2006-2009). She pursued her studies in Brescia in Italy and Paris in France, where she received an international MSc degree in Mechatronic systems for rehabilitation from the University of Pierre and Marie Curie, France (2009-2011).

Since 2016, Emilie holds a Ph.D in Computer and Systems Engineering from the University of Birmingham, UK. As a Ph.D candidate, she worked in a European project that focused on the design of an assistive system for stroke survivors (i.e., <http://www.cogwatch.eu/>). In this project, she was in charge of developing a planning system and a user's error recognition module able to automatically provide appropriate recommendations to stroke survivors during their activities of daily living. To do so, she used various artificial intelligent algorithms, focused on Markov Decision Processes, Partially Observable Markov Decision Processes and successfully explored novel ideas.

Emilie's current work at the Toronto Rehabilitation Institute and IATSL aims at developing a cross-task and cross-system recommendations planning module for an assistive system that helps individuals with dementia (i.e., COACH)."

If you are interested in meeting with Dr. Jean-Baptiste, please [email CBB](mailto:cbb@uwaterloo.ca), or visit [cbb.uwaterloo.ca/events](http://cbb.uwaterloo.ca/events) for information.



Event is FREE – please RSVP via [EventBrite](#).  
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