

Education

- 2013–2016 **PhD**, LAAS-CNRS, Toulouse, *expected defense: 10/2016*.
PhD in Human Robot Interaction. Situation assessment, Theory of Mind, Human Aware Plan Management.
Supervisor Professor Rachid Alami
- 2008–2013 **Engineer**, ENSEEIHT-INPT, Toulouse, .
Computer Science and Applied Mathematics, French engineering diploma, equivalent to a Master's degree in Engineering (February 2013).
- 2011–2012 **Master Research**, INPT, Toulouse, .
Master Multimedia (October 2012).
- 2006–2008 **Preparatory School**, La Martinière Monplaisir, Lyon, .
Two years undergraduate course in preparatory classes for competitive entrance exams for the national engineering schools. Subjects: Mathematics, Physics.
- 2005–2006 **Baccalaureate S**, Le Bon Sauveur, Le Vesinet.
Scientific Baccalaureate with distinction (French equivalent of 'A' levels in Mathematics, Physics and Biology).

Experience

Robotics

- 2013–Present **PhD student**, LAAS-CNRS, Toulouse, France.
ANR project MaRDi (Man Robot Dialogue) to enhance a domestic robot with situated dialogue abilities.
→ Main achievements:
- TOASTER (Tracking Of Agent and Spatio-TEmporal Reasoning), a C++ ROS open-source framework to collect data from sensors and compute geometric properties, agent affordances and mental states. Generated world states are managed in a database.
 - Implemented MORSE simulation scenario for user study (MaRDi project)
 - One month at iCeiRA (Taipei robotics laboratory) for collaboration
 - Interns co-tutoring.
 - Reviewing papers (HRI2016).
 - Courses:
 - Artificial Intelligence Planning (coursera)
 - Entrepreneurship courses (Université de Toulouse)
 - HRI summer school 2013 (Cambridge). Summer school on social robotics.
- May–Nov. **Master Internship**, HRI-JP, Wako, Japan.
2012 Honda Research Institute of Wako. HALOGEN Project: enhance multimodal multiparty dialogue on a humanoid robot.
→ Main achievements:
- Modules of image and audio analysis to identify the users interacting with the robot.
 - Developed a communication system interacting with users, according to data from Kinect and multichannel microphone, along with inferences results from Markov logic network (using Alchemy).
- 2010–2011 **1 Year Internship**, CNRS-AIST JRL, Tsukuba, Japan.
Part of the European project VERE.
→ Main achievements:
- Developed Amelif framework functionalities using OpenGL and Glut
 - Developed a vision server to use robot cameras with different settings and made plugin to analyze the images. Programmed in C++, using the libraries boost and OpenGL.
 - Plugin for object recognition. Developed from Dr Murphy-Chutturian's works based on Gabor Jets and colour features to localize and recognize objects.

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Projects

- 2013–2015 **Start-up Project Manager**, *JOBBOX*, Toulouse, France.
Initiated a start-up project with 5 friends. Main idea is to crowd-source client tasks (e.g. picture moderation) by using a smartphone application. Homepage at <http://myjobbox.net>
- 2012 **Scholar Project Manager**, *ENSEEIH / Unitag*, Toulouse, France.
Managed last year project of engineering courses. 6 students worked to provide a facebook application for the start-up Unitag.
- 2009–2010 **Project Manager**, *N7Consulting*, Toulouse, France.
Project Manager for the "Junior-Enterprise" N7Consulting.

Computer skills

- Basic BLENDER, Android SDK
- Intermediate PYTHON, SQL, Kinect SDK/OpenNI, Final Cut Pro, OpenOffice, Windows
- Advanced Object oriented (C++, JAVA), ROS, L^AT_EX, Linux, git, MORSE simulator

Publications (peer-reviewed)

- HRI -16 Using Human Knowledge Awareness to Adapt Collaborative Plan Generation, Explanation and Monitoring
- HRI -16 Some essential skills and their combination in an architecture for a cognitive and interactive robot (*Workshop*)
- ICSR -15 An Adaptive and Proactive Human-Aware Robot Guide
- REACTS -15 Planning Human-Robot Interaction Tasks Using Graph Models (*Workshop*)
- IWSDS -15 Users' Belief Awareness in Reinforcement Learning-based Situated Human-Robot Dialogue Management
- SIMPAR -14 Simulating human-robot interactions for dialogue strategy learning
- SIMPAR -14 Simulation and HRI recent perspectives with the MORSE simulator
- ROMAN -14 A framework for endowing an interactive robot with reasoning capabilities about perspective-taking and belief management

Communication Skills

- May 2016 Oral Presentation at HRI 2016 (Christchurch)
- June 2015 Oral Presentation to ACAI Work Group (Paris)
- October 2014 Poster Presentation at SIMPAR conference (Bergamo)
- Sept. 2014 Oral Presentation at ROMAN conference (Edinburgh)
- July 2014 Oral Presentation at HRI-JP laboratory (Wako, Japan)
- July 2014 Oral Presentation at JSK laboratory (Tokyo)
- June 2014 Oral Presentation at iCeIRA laboratory (Taipei)
- August 2013 Poster Presentation at HRI summer school (Cambridge)
- Nov. 2012 Oral Presentation at HRI-JP laboratory (Wako, Japan)

Languages

- French **Mothertongue**
- English **Fluent**
- Japanese, **Basic**
- Italian,
- German

TOEIC score in 2010: 865. Fluent speaking and writing

Basic words and phrases only