



# PHD STUDENT

## Bertrand HIGY

✉ Vico delle Virtù 2/1  
16123 GENOVA - ITALIA  
☎ +39 370 1100385  
✉ bertrand.higy@gmail.com  
📅 14/01/1985  
🚗 Driving license



## TOPICS OF INTEREST

- Artificial intelligence
- Robotics (especially cognitive and developmental robotics)
- Cognitive systems modeling
- Language emergence
- Complex systems



## EDUCATION

**2008 – 2010 Master degree in Cognitive Sciences**  
Université Lumières, Lyon, France  
Honors 2.1, first in my class

**2005 – 2008 Bachelor degree in Psychology**  
Université Louis Pasteur, Strasbourg, France  
Honors 2.2

**2005 – 2006 Bachelor degree in Computer Science**  
ULP, Strasbourg, France  
First class honours, first in my class



## INTERNSHIPS

**2009 – 2010 Master degree 2nd year internship, Laboratoire d'Informatique pour l'Entreprise et les Systèmes de Production (LIESP)**  
Université Lyon 1, France  
Title: Collective representations, language and tagging systems

**2008 – 2009 Master degree 1st year des internship, Laboratoire d'Etude des Mécanismes Cognitifs (EMC)**  
Université Lumières Lyon 2, France  
Title: Connectionist modelling of multimodal integration



## OTHER CERTIFICATIONS (on personal initiative)

**Feb. to May 2013 Compilers**  
Taught by Alex Aiken  
Online offering by Stanford University through Coursera Inc.

**Sept. to Dec. 2011 Introduction to Artificial Intelligence**  
Taught by Peter Norvig and Sebastian Thrun  
Online offering by Stanford University



## MISCELLANEOUS

- **Sports:** ping-pong, trekking, rowing
- **Reading:** *Dune* from Frank Herbert, *Runnig Man* from Stephen King, *Calvin and Hobbes* from Bill Watterson, *The solitaire mystery* from Jostein Gaarder
- **Strategy games** (Go, Shogi, Carcassone, Okko, ...)



## PROFESSIONAL EXPERIENCE

**November 2015 to date Istituto Italiano di Tecnologia, Genoa, Italy**  
Phd student  
Subject: Automatic speech recognition for human-robot communication

**May 2015 to October 2015 Istituto Italiano di Tecnologia, Genoa, Italy**  
Fellow  
Subject: Haptic object recognition with the robot iCub

**Dec. 2010 to Apr. 2015 Abase Europe, Strasbourg, France**  
Software engineer

**Sept. 2009 to Jan. 2010 Université Lumière, Lyon, France**  
Teaching assistant in computer science.

**January to April 2008 Laboratoire d'Imagerie et Neurosciences Cognitives (LINC), Strasbourg, France**  
Experimental assistant vacations (EEG study on sleep and attention).



## COMPUTING SKILLS

- **Programming languages:** C#, Java, C++, Abap
- **Advanced skills in algorithmic, knowledge of designs patterns**
- **Web programming:** HTML, CSS, Javascript, JQuery
- **Databases:** SQL, use of MySQL and SQL Server
- **Tools:** Git, Visual Source Safe, Visual Studio, Eclipse
- **Knowledge of Arduino platform**



## LANGUAGE SKILLS

- **English:** Professional knowledge  
Degree: CLES level 2 (corresponding to level B2 in Common European Framework of Reference for Languages)
- **German:** Scholar knowledge  
Degree: CLES level 2
- **Japanese:** Beginner
- **Italian:** Beginner