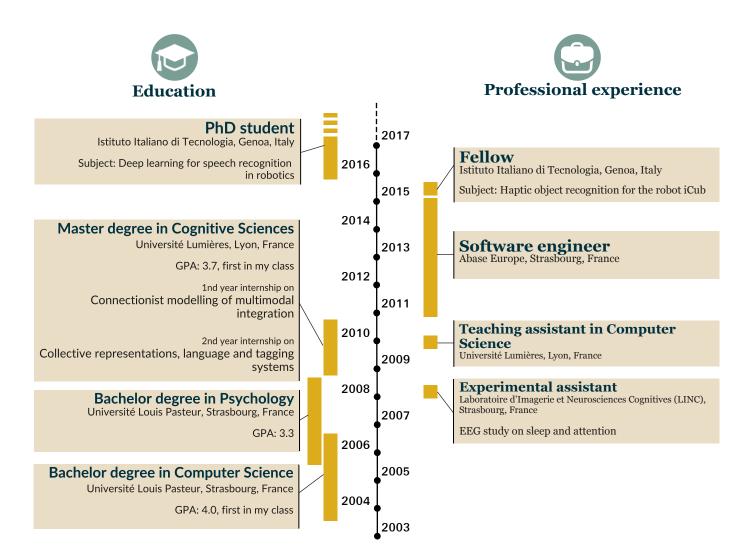# BERTRAND HIGY

PhD Fellow

Contact information

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On the web

linkedin.com/in/bertrandhigy
http://bhigy.github.io

Education

PhD student
Istituto Italiano di Tecnologia, Genoa, Italy

Subject: Deep learning for speech recognition in robotics

Master degree in Cognitive Sciences
Université Lumières, Lyon, France

GPA: 3.7, first in my class

1nd year internship on
Connectionist modelling of multimodal integration

2nd year internship on
Collective representations, language and tagging systems

Bachelor degree in Psychology
Université Louis Pasteur, Strasbourg, France

GPA: 3.3

Bachelor degree in Computer Science
Université Louis Pasteur, Strasbourg, France

GPA: 4.0, first in my class

Professional experience

Fellow
Istituto Italiano di Tecnologia, Genoa, Italy

Subject: Haptic object recognition for the robot iCub

Software engineer
Abase Europe, Strasbourg, France

Teaching assistant in Computer Science
Université Lumières, Lyon, France

Experimental assistant
Laboratoire d'Imagerie et Neurosciences Cognitives (LINC), Strasbourg, France

EEG study on sleep and attention

Timeline: 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003

Language skills

Language	Level
French	●●●●●
English	●●●●○
Italian	●●●○○
German	●●○○○

Technical skills

Skill	Level	Skill	Level
Python	●●●●○	Matlab	●●●●●
C++	●●●○○	TensorFlow	●●●●○
HTK	●●●●○	Git	●●●○○
Arduino	●●○○○		

Publications

Higy, B., Mereta, A., Metta, G., and Badino., L. **"Speech Recognition for the ICub Platform."** Frontiers in Robotics and AI 5 (2018).

Savran, A., Tavarone, R., Higy, B., Badino, L., and Bartolozzi, C. **"Energy and Computation Efficient Audio-Visual Voice Activity Detection Driven by Event-Cameras."** In Proceedings of 13th IEEE International Conference on Automatic Face Gesture Recognition. Xi'an, China, 2018. (accepted)

Higy, B., Ciliberto, C., Rosasco, L., and Natale., L. **"Combining Sensory Modalities and Exploratory Procedures to Improve Haptic Object Recognition in Robotics."**. In IEEE-RAS 16th International Conference on Humanoid Robots (Humanoids), 117–24. Cancun, Mexico, 2016.

Training

Introduction to convex optimization, 2018
Taught by Saverio Salzo and Silvia Villa, at University of Genoa, Italy

Barcelona Cognition, Brain and Technology summer school, 2017
in Barcelona, Spain

International Summit and Summer School on Deep Learning 2017
in Bilbao, Spain

Artificial Cognitive Systems, 2017
Taught by David Vernon, at the Italian Institute of Technology

Neurophysiology of the Sensory Systems and Multisensory Integration, 2017
Taught by Monica Gori, at the Italian Institute of Technology

RegML 2016
Regularization Methods for Machine Learning
Taught by Prof. Lorenzo Rosasco, at University of Genoa, Italy

Brains, Minds and Machines Workshop, 2016
in Sestri Levante, Italy

Veni Vidi Vici '15
The iCub Summer School
organized by th Italian Institute of Technology

MLCC 2015
A Machine Learning Crash Course
Taught by Prof. Francesca Odone and Lorenzo Rosasco, at University of Genoa, Italy

Interests

Japan, Board Games, Hiking, Books