



BERTRAND HIGY

PhD Fellow



Contact information

Vico delle Virtù 2/1
16123 GENOVA - ITALIA

+39 370 1100385
bertrand.higy@gmail.com



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

1st 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



Language skills

French	●●●●●
English	●●●●○
Italian	●●●○○
German	●●○○○



Technical skills

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., Higgy, 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.

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

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 IIT

MLCC 2015

A Machine Learning Crash Course

Taught by Prof. Francesca Odone and Lorenzo Rosasco, at University of Genoa, Italy

Introduction to Artificial Intelligence, 2011

Taught by Prof. Peter Norvig and Sebastian Thrun, online offering by Stanford University



Interests

Japan, Board Games, Hiking, Books