Jonathan Grizou

CONTACT INFORMATION

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EDUCATION

INRIA , **FLOWERS**, Bordeaux, France — *Oct. 2011 to present*

PhD student. Supervisors: Dr. Manuel Lopes and Dr. Pierre-Yves Oudeyer.

INSA, Toulouse, France — *Sept. 2006 to Sept. 2011*

Diplôme d'Ingénieur Electronicien (equivalent to BSc, MSc in Electrical and Computer Engineering) , specialized in Electronics and Embedded System.

Université Paul Sabatier, Toulouse, France — *Sept. 2010 to Sept. 2011*

MSc, Micro and Nano Systems granted with high honors. In parallel of my studies at INSA, I followed a Research Master (M2R) in the field of Micro and Nano Systems.

EXPERIENCES

EPFL, **BIOROB**, Lausanne, Switzerland — *Feb. to July 2011*

Master's thesis: Modeling the salamander swimming gate with virtual muscles on a robotic platform (http://biorob.epfl.ch/grizou).
Supervisors: Dr. K. Karakasiliotis, Dr. J. Knüsel and Prof. Auke Jan Ijspeert.

UCSD, **BioCircuits Institute**, San Diego, USA — *July to Sept. 2010*

Three months internship. I developed in C++ an active learning algorithm using the Platt approximation of the conditional probability to the SVMs.
Supervisor: Dr. Ramon Huerta.

DTU, Copenhagen, Denmark — *Sept. 2009 to Feb. 2010*

Exchange semester. Followed courses of intelligent systems, robotics and computational neuroscience. Projects:

- Programming of a multi-agent system, used successfully on real mobile robot in the lab.
- Creation of an electronic circuit simulating a basic neuron reaction to excitation and inhibition. Supervisor: Dr. Charles Capaday.

AWARDS

- Student Travels Award for "Robot Learning Simultaneously a Task and How to Interpret Human Instructions", ICDL-EpiRob, 2013 [website].
- Best Master's Thesis Prize 2011 from the regional branch of the french society of electrical engineering [website].

CONFERENCE PAPERS

[1] Grizou, J., Lopes, M., and Oudeyer, P. Y.. Robot learning simultaneously a task and how to interpret human instructions. In Development and Learning and Epigenetic Robotics (ICDL), 2013.

[2] Csapo, A., Gilmartin, E., Grizou, J., Han, J., Meena, R., Anastasiou, D., Jokinen K. and Wilcock, G.. Multimodal conversational interaction with a humanoid robot. In Cognitive Infocommunications (CogInfoCom), 2012.

WORKSHOP PAPERS

[3] Grizou, J., Iturrate, I., Montesano, L., Lopes, M., and Oudeyer, P. Y.. Zero-calibration BMIs for sequential tasks using error-related potentials. In IROS Workshop on Neuroscience and Robotics, 2013.

[4] Grizou, J., Iturrate, I., Montesano, L., Lopes, M., and Oudeyer, P. Y.. Interactive Task Estimation From Unlabelled Teaching Signals. PhD track in International Workshop on Human-Machine Systems, Cyborgs and Enhancing Devices, 2013.

Summer schools and workshops

- IROS Workshop on Neuroscience and Robotics: Towards a robot-enabled, neuroscience-guided healthy society. Tokyo, Japan, November 3, 2013 [website].
- HUMASCEND Workshop: PhD track. Manchester, UK, October 13, 2013. [website].
- CITEC Summer School: Continuous learning in living and artificial systems. CITEC, Bielefeld University, Germany, September 9-13, 2013 [website].
- FIAS winter school Intrinsic Motivations: From Brains to Robots. Frankfurt Institute for Advanced Studies, Frankfurt am Main, Germany, December 3-8, 2012 [website].
- Journes Nationales de le Robotique Humanode, LIRMM, Montpellier, France, September 20-21, 2012 [website].
- 8th International Summer Workshop on Multimodal Interfaces. Supelec, Metz, France, July 2-27 , 2012 (eNTERFACE 2012) [website].

Languages

Professional efficiency: French, English.
Basic knowledge: Spanish.

Additionnal Informations

- Co-Supervised the Master's Thesis of Mathieu Duteil, Brice Miard and Fabien Depraetre as well as the internships of Chloé Rozenbaum, Julie Golliot and Axel Davy.
- Review papers for ICDL (2012, 2013) and ROBOTICA (2013).
- Followed the Stanford online courses for machine learning (A. Ng) and artificial intelligence (S. Thrun, P. Norvig), receiving respective scores of 100/100 and 99.85/100 (top 5%).
- Built a 3D printer based on the RepRap open-source project, one hexapod robot and one two wheels drive robot as a research platform.