

Gabriel Urbain

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EXPERIENCE

UGENT | PHD STUDENT - RESEARCH ASSISTANT - IDLAB/IMEC
Since October 2015 | Ghent, Belgium
Topic: Brain-inspired CPG architectures for robust locomotion learning on quadruped robots.

UMONS | RESEARCHER AT THE NUMEDIART INSTITUTE
February - October 2015 | Mons, Belgium

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
MASTER PROJECT AT THE SPACE SYSTEMS LABORATORY
June 2014 – November 2014 | Cambridge, USA

ISAE | SUPAERO
MASTER OF SCIENCE IN AEROSPACE ENGINEERING
August 2012 – November 2014 | Toulouse, France
Double Master Degree through T.I.M.E. Network. Major : Space Systems, Telecommunications and Networks.

UMONS | FACULTÉ POLYTECHNIQUE
BACHELOR AND MASTER OF SCIENCE IN ELECTRICAL ENGINEERING
September 2008 – November 2014 | Mons, Belgium
Major: Multimedia et Telecommunications. Graduated with Honors.

PUBLICATIONS

Morphological Properties of Mass-Spring Networks for Optimal Locomotion Learning.
G. Urbain, J. Degraeve, B. Carette, F. Wyffels and J. Dambre. In *Frontiers in Neurorobotics*. 2017

A Semantic and Content-Based Search User Interface for Browsing Large Collections of Foley Sounds.
G. Urbain, C. Frisson, A. Moinet and T. Dutoit. In: *Audio Mostly - A conference on interaction with sound*. 2016

INSPECT Sensor Suite for On-Orbit Inspection and Characterization with Extravehicular Activity Spacecraft.
D. Steinberg, T. Sheerin and G. Urbain. In: *45th International Conference on Environmental Systems*. 2015

ASSOCIATIVE LIFE

IROBOTIQUE ASSOCIATION | ADMINISTRATOR AND SOFTWARE MANAGER
2004 - 2017 | Mons, Belgium

MUSEOMIX BELGIUM | ADMINISTRATOR AND ORGANISER
2015 - 2017 | Brussels, Belgium

CAMPUS ACTIVITIES

Gent Universitair Symphonisch Orkest (2016-2017) • Sailing (2014) • CubeSat (2012-2014) • Scuba Diving (2013-2014) • Supaero Jazz Band (2012-2014) • Rowing (2013) • Student Culture Committee (2010-2011) • President of Regional Student Committee (2009-2012) • Student representative for the board of Faculty (2011-2012) • Student representative for the University Evaluation Commission (2011-2012) • Student representative for the Board of Libraries (2010-2011) • Jazz Band Baudour (2001-2011) • Drums • Trumpet • Piano • Choral music

BIO

I'm a PhD student involved in the neuro-robotics branch of the European Human Brain Project. I'm pursuing research on embodiment, brain-inspired neural controllers and reinforcement learning for locomotion with robots. I've studied engineering both at University of Mons, Belgium and Supaero, France and did my Master thesis at MIT in USA. Among others, I've taken part in projects in computer vision, music information retrieval and space robotics. I like hiking, playing drums, trumpet and piano and I gladly involve in associations or committees with cultural and educational impact like iRobotique and Museomix where I'm responsible in administration and operations.

LANGUAGES

French (C2) • English (C1 - TOEFL IBT 105/120 in 2014) • Dutch (B1) • Spanish (A2)