Nicolas Boutry

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France

May 31,1978

Signal Processing

Masters Degree

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Objectives

My main objective is to understand *digital topology* as deep as possible, in particular *partially ordered sets* and their applications in *image processing,* and to find a manner to make any image *well-composed*.

Education

2014 - 2016	Ph.D. Student at **Laboratoire d'Informatique Gaspard-Monge (LIGM)** and at **Laboratoire de Recherche et Développement de l'EPITA (LRDE)**, working on well-composed images and their applications to the tree of shapes.
1997 - 2002	**Ecole Supérieure d'Ingénieur en Electronique et Electrotechnique (ESIEE) – Paris** (Equivalent Master) Top Engineering schools in **Electronics** and **Computer Sciences.**
1996 - 1997	**Baccalauréat S** (Specialization Mathematics)

Experience

Sept - Dec 2013	Internship at **Laboratoire de Recherche et Développement de l'EPITA (LRDE)** on well-composed interpolations on cubical grids.
Aug 2012 - May 2013	Research Engineering at MyCO2 to develop a mobile application combining artificial intelligence and signal processing.
2003 - 2006	Research assistant at **Laboratoire de Traitement des Signaux (LTS)** at **Ecole Polytechnique Fédérale de Lausanne (EPFL)**, working on image compression and sparse decompositions.
2003 - 2006	Internship at **Laboratoire de Traitement des Signaux (LTS)** at **Ecole Polytechnique Fédérale de Lausanne (EPFL)**, working on medical image analysis.

Teaching

2015 - 2016	Rational Language Theory at EPITA, for 3rd year engineering students.
2013 - 2016	Algorithmics at EPITA, for 3rd year students in computer engineering.
2003 - 2004	Filter Design at EPFL, for 4th and 5th year students in signal processing.

Skills

Operating Systems:	DOS, Windows, Linux, and Unix
Technical Software:	Mathematica, Matlab, Xcode, Processing, Arduino
Programming:	C/C++, Java, Objective-C, LaTeX, OpenCV

Languages

French	Native language
English	TOEFL 597 in 2000
Spanish	Basic knowledge