Maxime Baelde
Data Scientist

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 Github repo

Work experiences

October 2015 – Today	**R&D Engineer, Data Scientist**, A-Volute, Villeneuve d'Ascq. Develop algorithms related to probabilities, statistics, machine learning and artificial intelligence, for applications to digital audio technologies.
January 2016 – Today	**Ph. D Student**, A-Volute – Inria, Villeneuve d'Ascq. Thesis subject: Real-time identification, localization and separation of audio sources in multichannel audio streams. Supervisor: Christophe Biernacki, Professor (Université de Lille, INRIA, CNRS)
November 2017 – January 2018	**Part-time lecturer in Signal Processing**, Ecole Centrale de Lille, Villeneuve d'Ascq. Involved in lectures of Signal Processing at Ecole Centrale de Lille (Bachelor equivalent lectures)
September 2018 – October 2018	**Part-time lecturer in Statistics**, ISA, Lille. Involved in lectures of Statistics with R at ISA (Bachelor equivalent lectures)
April 2015 – September 2015	**Internship – R&D Engineer**, A-Volute, Villeneuve d'Ascq. Modelization of HRTF filters and optimization for 3D audio effect. Supervisor: Christophe Biernacki
May 2014 – August 2014	**Internship – Research assistant**, Université Libre de Bruxelles, Bruxelle. Development of an experimental method for assessing the musical qualities of violin strings. Supervisor: Jean-Pierre Herman

Scientific communications

2017	**Conference paper: ICASSP 2017**. Maxime Baelde, Christophe Biernacki, Raphaël Greff. A mixture model-based real-time audio sources classification method. 2017 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 5-9 Mar 2017, pp. 2427-2431, New Orleans, USA. [paper], [poster]
2017	**Conference paper: JDS 2017**. Maxime Baelde, Christophe Biernacki, Raphaël Greff. Classification de signaux audio en temps-réel par un modèle de mélanges d'histogrammes. 49èmes Journées de Statistiques, June 2017, Avignon, France. [paper]

Education

2012–2015	**Engineer Degree**, *Ecole Centrale de Lille*, Villeneveu d'Ascq, *Decision making and Data analysis*.

2014–2015 **Master Research in Applied Mathematics**, *Université de Lille*, Villeneuve d'Ascq.

2010–2012 **Preparatory classes: two-year undergraduate intensive course in mathematics and/or physics**, *Lycée Henri Wallon*, Valenciennes.

2007–2010 **A-Level, engineering sciences and physics speciality**, *Lycée Pierre Forest*, Maubeuge.

Computer skills

Software programming
PYTHON, R, MATLAB, C

Operating system
Windows, Linux

Language

French **Mother Tongue**

English **Technical and professional**

Hobbies

- Music: play the piano (since 3 years) and the guitar (since 12 years)
- Videogames: RPG, Tactical
- Reading: thriller, science-fiction