

Maxime Baelde

Data Scientist

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🐙 [Github repo](#)



Work experiences

- October 2015 **R&D Engineer, Data Scientist**, A-VOLUTE, Villeneuve d'Ascq.
– Today Develop algorithms related to probabilities, statistics, machine learning and artificial intelligence, for applications to digital audio technologies.
- January 2016 **Ph. D Student**, A-VOLUTE – INRIA, Villeneuve d'Ascq.
– Today 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 **Part-time lecturer in Signal Processing**, ECOLE CENTRALE DE LILLE, Villeneuve d'Ascq.
- January 2018 Involved in lectures of Signal Processing at Ecole Centrale de Lille (Bachelor equivalent lectures)
- September 2018 **Part-time lecturer in Statistics**, ISA, Lille.
– Involved in lectures of Statistics with R at ISA (Bachelor equivalent lectures)
- October 2018
- April 2015 – **Internship – R&D Engineer**, A-VOLUTE, Villeneuve d'Ascq.
- September 2015 Modelization of HRTF filters and optimization for 3D audio effect. Supervisor: Christophe Biernacki
- May 2014 – **Internship – Research assistant**, UNIVERSITÉ LIBRE DE BRUXELLES, Bruxelles.
- August 2014 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 **Engineering Degree**, Ecole Centrale de Lille, Villeneuve 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