Pablo **Alonso Jiménez**

BSc. Telecomunication engineering | MSc. Sound and Music Computing

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I am a researcher/developer at the Music Technology Group (UPF). Currently, I am working on solutions to help the music industry to automatically assess audio quality and defects on large music collections.

Skills

Programming Languages :	**C/C++**, Python, MATLAB, Bash, Java, LaTeX
Favorite Software :	**Linux**, Windows, PyCharm, Visual Studio, Jupyter notebooks, QT
Programming skills :	**Object Oriented**, scripting, version controlling (git), unit testing
Technical skills :	**Signal processing**, machine learning, MIR, ASR
Soft skills :	**Team-working**, creative thinking, interested in new fields of knowledge
Other interests :	**Acoustics**, recording engineering, sound design, music production

Professional Experience

Present – January 2018 — Researcher / Developer | Music Quality Evaluation, Music Technology Group, Spain

- I am using signal processing and machine learning to automatically assess music quality.
- This project is a collaboration with the music distributors La Cúpula, and is deployed in a real scenario.
- The algorithms are implemented in C++ considering computational efficiency and readability.
- All the algorithms are extensively unit-tested.

C++ | Python | unit testing | quality assessment

December 2017 – September 2017 — Student intern | Automatic Phoneme Recognition, Yamaha, Japan

- I developed and assessed Automatic Phoneme Recognition technologies for natural singing.
- I used the Kaldi framework and machine learning techniques.

Kaldi | APR | Bash | machine learning

July 2017 – June 2017 — Student intern | Voice Synthesis Technologies, Voctrolabs, Spain

- I helped to create a C API for Voice Synthesis and Voice Conversion technologies.

C++ | Make | Python | HTS | Kaldi

May 2017 – November 2016 — Research assistant | Algorithm development for Essentia, Universidad Pompeu Fabra, Spain

- I implemented sound processing algorithms in C++ (*MFCC, Constant Q, fingerprinting...*).
- My work also included Python wrappers, unit testing and documentation with Doxygen.

C++ | Python | MIR | unit testing

June 2015 – February 2015 — Student intern | Acoustic Research, Microflown Technologies, The Netherlands

- I developed a noise location system based on acoustic vector sensors

Acoustic Vector Sensors | source location | noise monitoring

Formation

2017 MSc. in Sound and Music Computing. Thesis on Singing Voice Conversion. *Universidad Pompeu Fabra*
2016 BSc. in Telecommunication Engineering. Sound and Image mention (7.5). *Universidad de Vigo*
2015 MOOC in Audio Signal Processing for Music Applications. *Coursera*

Languages

Spanish ●●●●●
English ●●●●○