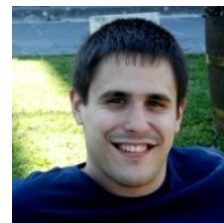


## PERSONAL INFORMATION:

Contact  
Links  
Date of birth

## JORDI PONS

jordi.pons@upf.edu – [@jordiponsdotme](https://twitter.com/jordiponsdotme)  
[jordipons.me](http://jordipons.me), [GitHub](#), [LinkedIn](#), or [Google Scholar](#)  
15 / 02 / 1991



## WORK EXPERIENCE:

- UPF-Music Tech. Group (BCN)  
*September 2015-Till date*
- Teaching and research staff.** Researching how (music) audio tasks can benefit from large-scale audio collections and deep learning.
- Telefónica Research (BCN)  
*Summer 2018*
- Research on which strategies help **training neural audio classifiers with few data**, with the goal to learn audio representations that generalize from small audio datasets.
- Pandora Radio (Bay Area – USA)  
*Summer 2017*
- Research on how different **deep auto-tagging models perform at scale**, via leveraging the Music Genome Project with supervised deep learning.
- DHZ (Hannover) & UPF-Music Technology Group (BCN)  
*January 2015-August 2015*
- Music perception** remains generally poor for **cochlear implant users**. **Source separation** techniques are investigated to enhance the quality of the perceived music mix for implantees – with Waldo Nogueira (DHZ) and Jordi Janer (UPF-Music Technology Group).
- IRCAM (Paris)  
*September 2013-August 2014*
- Research on the use of **non-negative matrix factorization techniques for drum transcription** and separation from polyphonic music signals, with Axel Roebel.
- DataTotal (Terrassa)  
*Summer 2013*
- Their research is on the field of the Smart Meters technology: electronics, telematics and data processing. My position was as **python developer** on the web-GUI of the system.
- UPC-TelecomBCN (Barcelona)  
*January 2013-June 2013*
- Teaching assistant** in the Advanced Engineering Project, an e-Health system: detection of pulse and breath frequency through **video processing**.

## EDUCATION:

- UPF-Music Technology Group (BCN)
- PhD candidate** in music technology, large-scale audio collections, and deep learning – supervised by Prof. Xavier Serra.
- UPF-Music Technology Group (BCN)
- Master in Sound and Music Computing (2014-2015)**, a research oriented master that combines practical and theoretical approaches in topics such as: machine learning, audio engineering and audio perception. Master thesis: "A source separation-based approach for improving music perception for cochlear implant users".
- UPC-TelecomBCN (BCN)
- Telecommunications Engineering (2009-2014)**, specialized in multimedia processing and communications. Degree's thesis with honors: "Automatic Drums Transcription using Non-negative Matrix Deconvolution". "Audio and Speech Processing" course with honors, as well.
- Conservatory (Girona)
- Piano, clarinet and harmony studies at the **Classical Academy of Music (2002-2006)**.

## LANGUAGES:

Catalan (mother tongue), Spanish, English and French.

## TECHINICAL SKILLS:

- **Programming:** Python & Matlab mostly, but I also programmed in C++.
- **Web:** HTML5, CSS and PHP-SQL.
- **Machine Learning:** supervised & unsupervised learning, mainly related to audio signal processing problems.
- **Software:** advanced GNU/Linux user.
- Autodidact **music player:** guitar, drums and "gralla" (a traditional catalan instrument).

## AWARDS:

- **ISMIR 2018 best student paper award**: “End-to-end learning for music audio tagging at scale”.
- **AI Grant Fellowship**, 2017.
- **Machine Learning award** for the **poster** “Towards a grounded deep learning paradigm for music modeling” in **5<sup>th</sup> DTIC-UPF Doctoral Student Workshop**, 2017.
- **CBMI 2016 best-paper award**: “Experimenting with musically motivated CNNs”.

## PUBLICATIONS:

- ICASSP 2018  
*Conference Paper*
- Dario Reithage, [Jordi Pons](#) & Xavier Serra. “A **Wavenet** for **Speech Denoising**”.  
· see demo: [link](#)
- ML4Audio @ NIPS 2017  
*Workshop Paper &*  
ISMIR 2018
- [Jordi Pons](#), Oriol Nieto, Matthew Prockup, Erik M. Schmidt, Andreas F. Ehmman & Xavier Serra. “**End-to-end learning for music audio tagging at scale**”.  
· see demo: [link](#)
- ISMIR 2017  
*Conference Paper*
- [Jordi Pons](#), Rong Gong & Xavier Serra. “Score-informed **syllable segmentation** for a capella singing voice **with convolutional neural networks**”.
- ISMIR 2017  
*Conference Paper*
- Rong Gong, [Jordi Pons](#) & Xavier Serra. “**Audio to score matching** by combining phonetic and duration information”.
- ISMIR 2017  
*Conference Paper*
- Eduardo Fonseca, [Jordi Pons](#), Xavier Favory, Frederic Font, Dmitry Bogdanov, Andres Ferraro, Sergio Oramas, Alastair Porter & Xavier Serra. “**Freesound Datasets: A platform for the creation of open audio datasets**”.
- EUSIPCO 2017  
*Conference Paper*
- [Jordi Pons](#), Olga Slizovskaia, Rong Gong, Emilia Gómez and Xavier Serra. “**Timbre analysis** of music audio signals with **convolutional neural networks**”.
- ICASSP 2017  
*Conference Paper*
- [Jordi Pons](#) and Xavier Serra. “Designing **efficient architectures** for modeling **temporal features** with convolutional neural networks”.
- Journal of the Acoustical  
Society of America
- [Jordi Pons](#), Jordi Janer, Thilo Rode and Waldo Nogueira. “Remixing music using **source separation** algorithms to improve the musical experience of **cochlear implant** users”. 2016, vol.140, no 6, p. 4338 – 4349.
- CBMI 2016  
*Conference Paper*
- [Jordi Pons](#), Thomas Lidy and Xavier Serra. “Experimenting with **musically motivated convolutional neural networks**”.
- ICASSP 2015  
*Conference Paper*
- Axel Roebel, [Jordi Pons](#), Marco Liuni and Mathieu Lagrange. “On automatic **drum transcription** using non-negative matrix deconvolution and itakura saito divergence”.