

# Pedro Ramoneda Franco

Technologist, Pianist and PhD candidate.

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My PhD thesis focuses on audio and symbolic music dataset creation and deep learning for performance difficulty analysis under the supervision of Dr. Marius Miron and Prof. Xavier Serra. We aim to understand the performance difficulty, through pedagogically motivated representations, to recommend a customised and optimised learning path for each music student. My ML research interests include explainable machine learning, generative models and curriculum learning.

## Experience

- Early Stage Researcher  
Music Technology Group - Universitat Pompeu Fabra  
2021 – Currently    Barcelona
- Research Internship  
Music Technology Group - Universitat Pompeu Fabra  
2020 – 2021    Barcelona
- Business Information Systems - Admin & Dev  
Nina Fruits s.l.  
2015 – 2020    Zaragoza, Spain
- Piano teacher  
High school: "El Salvador"  
2014 – 2016    Barcelona

## Papers

- Ramoneda, P., Tamer, N. C., Eremenko, V., Miron, M. & Serra, X. *Score difficulty analysis for piano performance education*. Submitted to ICASSP 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) (2022).
- Ramoneda, P., Plaja, G., Miron, M., Caro, R. & Serra, X. *Understanding the relationship between voice and accompaniment on symbolic music data*. Manuscript will be submitted to SMC 2022.
- Ramoneda, P., Miron, M. & Serra, X. *Piano fingering with reinforcement learning*. Arxiv.
- Bernardes, G., Ramoneda, P. & Miron, M. *Unveiling high-level discriminant harmonic descriptors of musical style in the tonal interval space*. In ICMPC-ESCOM, 2021.
- Ramoneda, P. & Bernardes, G. *Revisiting harmonic change detection*. In 149th AES convention, the Audio Engineering Society, AES149 (2020).

## Academic Dissertations

- Master's thesis, Universitat Pompeu Fabra, Barcelona.  
Title: *Computational methods to study piano music in education context*. Under the supervision of Dr. Marius Miron and Prof. Xavier Serra.
- Bachelor's thesis, University of Porto and University of Zaragoza.  
Title: *Harmonic change detection from musical audio*. Under the supervision of Prof. Gilberto Bernardes.

CLICK HERE FOR THE LONG CV (FULL OF PROJECTS)

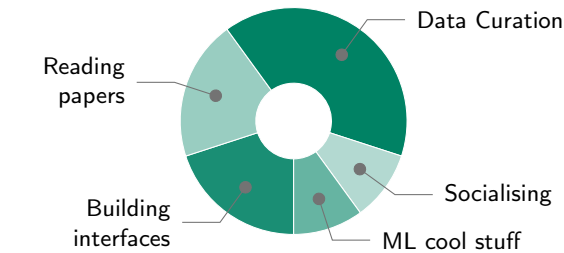
## Education

- PhD in Information technology  
Universitat Pompeu Fabra  
2021 – ongoing
- Master in Sound and Music Technology  
Universitat Pompeu Fabra  
2020 – 2021
- BSc Computer Science Engineering  
Universidad de Zaragoza  
2015–2020
- BMus Piano Performance, (Paused)  
CSMA  
2016–2018
- Professional Degree Piano Performance  
CPMZ  
2009–2015

## Languages

- Spanish    ●●●●●
- English    ●●●●●
- Portuguese    ●●●●●

## A usual work-journey



- How users see it: 90% building interfaces.
- How my boss sees it: 90% socialising.
- How other disciplines see it: 90% data curation.
- How I see it: Everything is ML cool stuff.