

# Pedro Ramoneda Franco

Technologist, Pianist and PhD candidate.

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24 years - Spain

Google Scholar

Github

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 - **mirdata's dev**

**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

Zaragoza, Spain

## 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.

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## 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

