

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.

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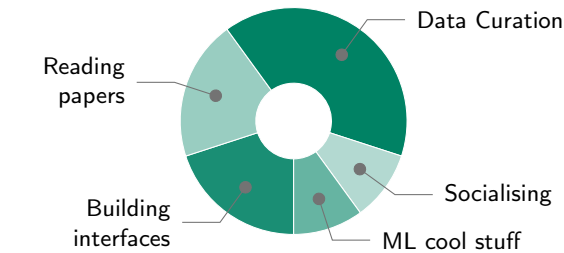
Education

- 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



- 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.