

Pedro Ramoneda Franco

Technologist, Pianist and PhD candidate.

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Barcelona - Spain

Google Scholar

Github

Twitter

My PhD thesis focuses on modeling performance difficulty in piano using pedagogically motivated representations under the supervision of Prof. Xavier Serra. By modeling long sequences of musical notes, my research is inspired by the latest developments in NLP and adapts them to the musical context. I have created several datasets for piano difficulty and fingering, integrated into Python libraries such as [mirdata](#), where I am one of the main contributors. Furthermore, my research is reproducible, and I distribute several [demos](#) along with my papers. My ML research interests include multimodal and explainable machine learning, generative models, and human-centered AI. For more detailed information, visit [my website](#).

Experience

Early Stage Researcher and Teacher Assistant

Music Technology Group - Universitat Pompeu Fabra

2021 – Currently

Barcelona, Spain

Research Internship - Music Generation for Education

Yamaha

Jan 2025 – March 2025

Yokohama, Japan

Research Internship - Automatic Music Generation

Sony CSL - Tokyo

Jun 2023 – Sept 2023

Remote

Research Internship - [mirdata](#)'s dev & [Repovizz](#) data curator

Music Technology Group - Universitat Pompeu Fabra

2020 – 2021

, Spain

Business Information Systems - Admin & Dev

Nina Fruits s.l.

2015 – 2020

Zaragoza, Spain

Piano teacher

High school: "El Salvador"

2014 – 2016

Zaragoza, Spain

Selection of Papers

Ramoneda, P., Lee, M., Jeong, D., Valero-Mas, J.J., & Serra, X. *Can Audio Reveal Music Performance Difficulty? Insights from the Piano Syllabus Dataset*. Submitted to IEEE TASLP (2024).

Ramoneda, P., Rocamora, M. & Akama T., "Music Proofreading with RefinPaint: Where and How to Modify Compositions given Context", in Proc. of the 25th Int. Society for Music Information Retrieval Conf., San Francisco, USA, (2024).

Ramoneda, P., Valero-Mas, J. J., Jeong, D., & Serra, X. *Predicting performance difficulty from piano sheet music images*, in Proc. of the 24th Int. Society for Music Information Retrieval Conf., Milan, Italy (2023).

Ramoneda, P., Jeong, D., Nakamura, E., Serra, X., & Miron, M. *Automatic Piano Fingering from Partially Annotated Scores using Autoregressive Neural Networks*. In Proceedings of the 30th ACM International Conference on Multimedia (2022).

Ramoneda, P., Tamer, N. C., Eremenko, V., Miron, M. & Serra, X. *Score difficulty analysis for piano performance education*. In ICASSP 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (2022).

Ramoneda, P. & Bernardes, G. *Revisiting harmonic change detection*. In 149th AES convention, the Audio Engineering Society, AES149 (2020).

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

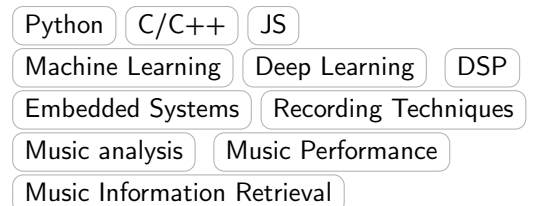
Spanish

English

Portuguese



Skills



A usual work-journey

