Ariana Pereira

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PROFESSIONAL EXPERIENCE

Universitat Pompeu Fabra – Barcelona, Spain Jan 2026 – Present
Musitopia Intern
· Implementing generative AI models to produce music content and guided meditations for music therapy sessions.
· Designing interactive virtual instruments leveraging advanced signal processing and music information retrieval techniques.
· Enhancing music recommendation algorithm by integrating musical features and well as user engagement statistics.

Goldman Sachs – New York, NY
Wealth Management Finance and Business Strategy Associate Jul 2021 – Jun 2025
· Designed predictive models to optimize resource allocation and operational efficiency leveraging advanced data analysis.
· Provided business intelligence utilizing enterprise databases and synthesizing key findings into management reports.

EDUCATION

MSc in Sound and Music Computation Sep 2025 - Anticipated June 2027
Universitat Pompeu Fabra – Barcelona, Spain

Graduate Certificate in Machine Learning (Python) Aug 2024 – Dec 2024
Cornell University - Online

Python for Data Structures Jan 2021 – Jul 2021
University of Michigan - Online

BS in Business Administration, Concentration: Finance Fall 2017 – Spring 2021
Montclair State University – New Jersey, USA GPA 3.94 out of 4.0 – Dean's List

RESEARCH EXPERIENCE

Signal Processing Mentorship Academy of IEEE - *Mentee Researcher* May 2027
· Investingating the neural encoding of musical surprisal through stastical modeling to be presented at ICASSP 2027

DCASE - Detection and Classification of Acoustic Scenes and Events – *Organizing Team* Oct 2025
· Facilitated registration and attended lectures and poster sessions by pioneers in the field of acoustical detection.

ACM Europe School on Recommender Systems - *Participant* Sep 2025
· Developed case study for a recipe recommendation system, reflecting on lecture topics covered both algorithmic and ethical.

UPF Generative AI Music Workshop - *Participant* Jul 2025
· Constructed an AI application to generate piano accompaniments for speech audio (github.com/hoggl-dsp/Songify).

ARTISTIC PROJECTS

Free Lance Studio Musician – *Background Vocalist, Pianist, and Producer* 2020 - Present
· Composed and recorded background harmony parts and piano accompaniment for various styles of music.
· Collaborated with major label producers and songwriters such as Sandy Linzer Productions, Inc. and Eryck Bry Music, LLC.

Ævina The Ukulelian - *Studio Artist, Co-Writer, Co-Producer* 2020 – Present
· Co-composed, arranged, and performed piano and background vocals, blending musical storytelling with existential themes.
· Contributed to marketing and distribution strategies, supporting both studio recordings and live performances.

Paid Time Off – *Pop Punk Background Vocalist* Feb 2025 – Aug 2025
· Perform in studio and live shows across NYC, supporting vocal arrangements and audience engagement.

Liquid Church and The Chapel – W*orship Band Pianist and Background Vocalist* 2014 - 2020
· Performed live music for services, refining skills in musical performance, collaboration, and audience engagement.
· Supported audio/visual engineers during sound checks, assisting with setup and ensuring seamless performances.

TECHNICAL SKILLS

Programming & Data Analysis	Python, Excel, SQL, Tableau, Qliksense, Alteryx, Matplotlib
Machine Learning	Pytorch, scikit-learn, TensorFlow, Librosa, Essentia, HuggingFace
Data Analysis	NumPy, Pandas, SciPy
Music & Audio Tools	LogicPro, GarageBand, MIDI Plug-ins, Melodyne, Audacity
Instruments	Professional Proficiency in Piano, Voice, Ukulele, and Advanced Music Theory
Languages	English (Native), Spanish (Professionally fluent – B2)