

# Alia Morsi

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## Motivation

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Looking for a **Summer Internship in Music Information Retrieval (MIR)** involving technologies serving the goal of **Musical Learning**, whether it is **Instrument Learning** or **Acquiring Musical Knowledge** in general. Examples could include the preparation and analysis of music practice/rehearsal data, or the generation of practice suggestions to the music learner.

## Education

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### Universitat Pompeu Fabra (UPF)

PHD CANDIDATE - MUSIC TECHNOLOGY GROUP - SUPERVISOR: XAVIER SERRA

*Barcelona, Spain*

*November 2020 - Current*

### Universitat Pompeu Fabra (UPF)

MSC OF SOUND AND MUSIC COMPUTING (AVERAGE GRADE: 9.03/10) - SUPERVISOR: XAVIER SERRA

*Barcelona, Spain*

*Sept 2018 - Sept 2020*

Master Thesis: Characterizing Difficulty Levels of Keyboard Music Scores

### The American University in Cairo (AUC)

BSC IN COMPUTER SCIENCE (GPA: 3.98) | FALL 2010 EXCHANGE AT PENNSYLVANIA STATE UNIVERSITY (PSU)

*Cairo, EG*

*Fall 2013*

## Skills

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**Programming Languages:** Advanced: Python. Intermediate: C++ and NI LabView

**Audio Analysis:** Essentia, Sonic Visualizer

**Symbolic Analysis:** music21 library

**General Data Analysis Tools:** Ipython, Jupyter Lab, scikit learn

**Deep Learning:** Pytorch (beginner)

## Related Professional Experience

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### UPF

*Barcelona, Spain*

INTERN AT THE AUDIO SIGNAL PROCESSING LAB OF THE MUSIC TECHNOLOGY GROUP (MTG) - PART TIME

*October 2018 - July 2020*

- Worked on growing the lyrics corpus of the Arab Andalusian Music Tradition within the MTG's Dunya Platform (a platform to enhance computational research of traditional music). This included: a) annotating a number of recordings at the granularity of poem line sections, b) minor code updates to the transliteration script, c) and organizing the available data.
- Conducted small scale Music Information Retrieval (MIR) experiments on vocal segment detection and comparisons between song structures in the Arab Andalusian Corpus

### Freelance Consultant

*remote*

*October 2019 - December 2019*

- Worked with a small streaming service in Cairo to point them towards state of the art research to improve their leveraging of their music tags

## Academic Community Participation

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Nov 2021 -  
Current , Student Board Member of the International Society of Music Information Retrieval (ISMIR)

Feb 2021 -  
Nov 2021 , Sponsorship co-chair for the 22nd Edition of the ISMIR conference

Dec 2019 -  
Nov 2021 , Women in Music Information Retrieval (WiMIR) Editorial Committee co-chair

Oct 2020 , Volunteer for the 2020 WiMIR Workshop (Online)

## Publications

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- 2019 **Paper**, Eremenko V, Morsi A, Narang J, Serra X. Performance assessment technologies for the support of musical instrument learning. Paper presented at: CSEDU 2020 The 12th International Conference on Computer Supported Education; 2020 May 2-4.
- 2015 **Patent**, Teirelbar, Ahmed and Morsi, Alia. System and method for maintaining a photovoltaic power source at a maximum power point. US 14/738, 113, filed June 12, 2015
- 2013 **Short Paper Publication**, A. Morsi and A. Rafea, "Studying the impact of various features on the performance of Conditional Random Field-based Arabic Named Entity Recognition," 2013 ACS International Conference on Computer Systems and Applications (AICCSA), Ifrane, 2013, pp. 1-5.

## Conferences/Workshops

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- Oct 2021 , Attended The Women in Music Information Retrieval (WiMIR) Workshop 2021 (online)
- Nov 2021 , Attended The International Society of Music Information Retrieval (ISMIR) Conference 2021 (online)
- Oct 2020 , Attended WiMIR 2020 (online)
- Nov 2020 , Attended ISMIR 2020 (online)
- Nov 2019 , Attended the WiMIR workshop 2019 in Delft, Netherlands
- Nov 2019 , Attended ISMIR 2019 in Delft, Netherlands
- Sept 2019 , Attended Improtect in Athens
- Sept 2019 , Participated in Projekt Corpus Musicae Ottomanicae Workshop presenting our Annotation work for the Arab Andalusian Corpus of the Dunya Project

## Teaching Assistant Experience

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### Universitat Pompeu Fabra

*Barcelona*

RESEARCH PROJECT (MASTER THESIS) COURSE

*October 2020 – July 2021*

- High level discussions in the students' early phases of project selection to help match them with relevant topics/supervisors
- Engaged in bi-weekly follow up sessions with Master students throughout all phases of their Master Projects