

Sertan Şentürk

Data Scientist - Music Information Retrieval

London, UK

I am pursuing a career in music technology with a specialization in audio signal processing & machine learning. As part of my endeavors, I aim to develop novel and scalable solutions for the automatic description, retrieval and discovery of big music data.

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www.github.com/sertansenturk

www.linkedin.com/in/sertansenturk



Work and Research Experience

Jan 2018 - ongoing

London, UK

Data Scientist - Research & Development

Kobalt Music Group

Tasks/Achievements

- Developing solutions to match/link music metadata
- Investigating semantic web technologies to describe, retrieve, and discover music metadata
- Assisting ad-hoc, cross-business tasks with data-driven solutions
- Supporting learning and development efforts with regular talks on data science, machine-learning, and audio signal processing

Manager

Alison Wells - alison.wells@kobaltmusic.com

Sep 2011 - May 2017

Barcelona, SPAIN

Researcher in CompMusic Project

Music Technology Group, Universitat Pompeu Fabra

Tasks/Achievements

- Developed state-of-the-art signal processing and machine learning methodologies to describe audio recordings & music scores
- Implemented the methods in Python in a modular, easy-to-use and open source toolbox: <https://github.com/sertansenturk/tomato>
- Assisted the deployment of the analysis tools into a web-based automatic music description and discovery application, online at: <http://dunya.compmusic.upf.edu/makam/>
- Obtained corpus-based, automatic and generalizable descriptions of the studied music cultures
- Built (supported by musicians and other researchers) the largest corpus of makam music available for computational research

PhD Supervisor: Xavier Serra - xavier.serra@upf.edu

Aug 2009 - Aug 2011

Atlanta, GA, USA

Graduate Research Assistant

Georgia Tech Center for Music Technology

Tasks/Achievements

- Generated computational models of melody and rhythm based improvisational styles from Turkey and India
- Designed several interactive music interfaces

Education

Sep 2011 - Feb 2017

Barcelona, SPAIN

PhD in Information, Communication and Audiovisual Technologies

Universitat Pompeu Fabra

Aug 2009 - Aug 2011

GPA: 3.64/4.00 - Atlanta, GA, USA

MSc. in Music Technology

Georgia Institute of Technology

Sep 2004 - Jun 2009

GPA: 3.13/4.00 - Ankara, TURKEY

BSc. in Electrical and Electronics Engineering

Middle East Technical University

Sep 2005 - Jun 2009

GPA: 87.75/100 - Ankara, TURKEY

Part-time Classical Guitar Program

Hacettepe University Ankara State Conservatory

Languages

English

Fluent

Spanish

Upper-intermediate

Turkish

Native

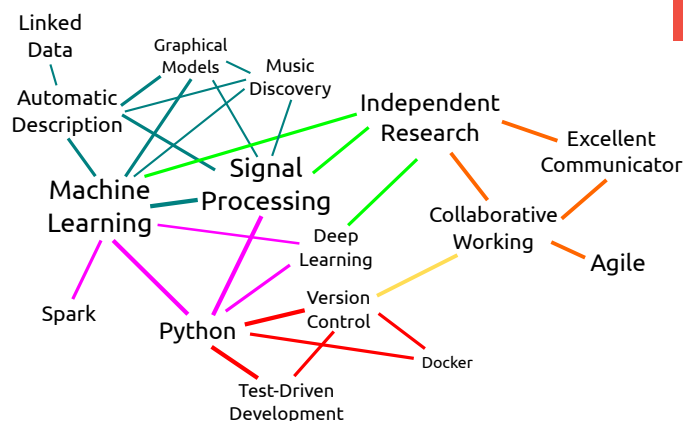
German

Pre-Intermediate

Catalan

Beginne

Skills & Competences



Publications

Published 30+ papers on music information retrieval and interactive music

- 300+ citations listed in Google Scholar: <https://goo.gl/Qwje6z>
- Şentürk, S. (2016). **Computational analysis of audio recordings and music scores for the description and discovery of Ottoman-Turkish makam music**. PhD thesis, Universitat Pompeu Fabra, Barcelona, Spain.
- Şentürk, S., Holzapfel, A., and Serra, X. (2014). **Linking scores and audio recordings in makam music of Turkey**. JNMR, 43:34–52.
- Şentürk, S., et al. (2012). **Crossole: A gestural interface for composition, improvisation and performance using Kinect**. NIME 2012, pages 449–502.
- Please visit <http://sertansenturk.com/research/publications/> for an up-to-date list

Selected Talks

Dec 2017

Middle East Technical University

Music Information Retrieval: Applications and the State-of-the-Art
Seminar

Jan 2017

Universitat Pompeu Fabra

Why Reproducibility Matters? A Personal Experience
Invited Talk

Feb 2016

Numerous Music and Engineering Schools

Culture specific approaches in music technology
Main Speaker in a Series of Seminars

Teaching Experience

Sep 2012 - Aug 2015

Universitat Pompeu Fabra

Signals and Systems

Undergraduate Course

Responsibilities

- Lab coordinator (2015), lab Instructor (2012 – 2015)
seminar instructor (2014)

Mentorship

Women in Music Information Retrieval

2017 - ongoing

Georgia Tech Music Technology Mentorship

2018 - ongoing

5+ mentees on various topics from music generation to sustainability