

Venkatesh Shenoy K.

PHD FELLOW · COMPUTER VISION AND MACHINE LISTENING · SOFTWARE DEVELOPER · MUSICIAN

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Education

Universitat Pompeu Fabra (UPF)

PHD IN INFORMATION AND COMMUNICATION TECHNOLOGIES

LA CAIXA INPHINIT RESEARCH FELLOW 2018

Thesis: Audio-visual Methods for Music Information Retrieval

Barcelona, Spain

Oct. 2018 - Sep. 2022

Universitat Pompeu Fabra (UPF)

MASTER'S DEGREE IN SOUND AND MUSIC COMPUTING

CGPA: **8.48/10.00**

Thesis: Musical Instrument Recognition in Multi-Instrument Audio Contexts

Barcelona, Spain

Sep. 2017 - Aug. 2018

National Institute of Technology Karnataka Surathkal (NITK)

B.TECH IN ELECTRICAL AND ELECTRONICS ENGINEERING

CGPA: **9.01/10.00**

Surathkal, India

Jul. 2011 - May. 2015

Skills

Areas

Agile Software Development, Music Information Retrieval, Computer Vision, Audio-visual Models, Deep Learning, Big Data, Signal Processing

Programming

Python, PyTorch, JAVA (Oracle Certified Associate, Java SE 7 Programmer), MATLAB, Java Script, CSS, HTML

Languages

English (Level C1), Spanish (Level A2), Hindi, Kannada, Konkani

Experience

Universitat Pompeu Fabra

TEACHING

Teaching duties for the Calculus II course at undergraduate level.

Barcelona, Spain

Jan.-Jul. 2019, Jan.-Jul. 2020

Altisource

SOFTWARE ENGINEER

Gained considerable experience in JAVA as a backend developer in a fast paced startup environment.

Developed REST APIs which served as backend for the software webpages.

Developed a resilient multithreaded data ingestion system to receive client data using Spring Integration.

Worked in next generation big data technologies like Kafka and Samza.

Developed webpages using Angular 2.

Bengaluru, India

Jun. 2015 - Jul. 2017

School of Computing, NUS (Prof. Chua Tat Seng)

RESEARCH ASSISTANT

Explored a novel supervised learning approach to classify environmental sounds.

Singapore

May. 2014 - Jul. 2014

Investigated the "grammatical" structure of certain Rāgas in Carnatic music by examining stochastic models of successive notes, obtained from the textual transcripts of the rendering of different Rāgas.

Honors & Awards

2018	INPhINIT Doctoral Fellowship , La Caixa Foundation
2017	Masters Tuition Fee Waiver , Universitat Pompeu Fabra
2016	Altisource All Stars Award , Altisource Talent Hunt
2015	Best Talented Student in Music , NITK batch of 2015

Publications

Under review

Virtual

A CAPPELLA: AUDIO-VISUAL SINGING VOICE SEPARATION

2021

Achieved promising results in the audio-visual singing voice separation task.

Release of the first public audio-visual dataset for singing voice separation and singing style transfer.

CVPR Workshop Sight and Sound 2021

Virtual

ESTIMATING INDIVIDUAL A CAPPELLA VOICES IN MUSIC VIDEOS WITH SINGING FACES

Jun. 2021

One of the first to explore audio-visual singing voice separation.

IEEE MMSP 2020

Tampere, Finland

MULTI-CHANNEL U-NET FOR MUSIC SOURCE SEPARATION

Sep. 2020

Explored computationally cheaper models for estimating individual music sources present in a music clip.

Master's Degree Thesis

Barcelona, Spain

MUSICAL INSTRUMENT RECOGNITION IN MULTI-INSTRUMENT AUDIO CONTEXTS

Sep. 2018

Investigated automatic musical instrument recognition systems with traditional machine learning as well as deep learning methods.

Extracurricular Activity

Ethno Portugal

Castelo de Vide, Portugal

RESIDENT MUSICIAN

15 Jul. 2019 - 26 Jul. 2019

Represented Indian music in the Ethno World music chapter of Portugal during 2019.

Barcelona World Music Project (BWMP)

Barcelona

CORE MEMBER

Sep. 2018 - Present

Participated in cross-cultural music performances as a part of BWMP as a flautist.

Music Club, NITK

Surathkal, India

SECRETARY

Jul. 2014 - May. 2015

Oversaw musical nights.

Composed jingle for the university's annual cultural fest Incident.

Performed in musical events, playing wide range of instruments like Bansuri, Harmonium, Trumpet and Synthesizers.