
Shruti Kshirsagar

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RESEARCH EXPERIENCE

Research Assistant | MUSAE Lab, Institut National de la Recherche Scientifique, Canada

Jan 2018 – Present

- Investigating novel speech features for human emotion recognition in realistic environments.
- Working on the MUSAE lab's projects related to human computer interaction.

Research Assistant | Nanyang Technological University, Singapore

May 2017 – Aug 2017

- Worked on "Analysis of prosodic pattern for the speech emotion recognition".
- Analyzed pitch patterns for the different emotions.
- Conducted experiments to investigate novel features for speech emotion recognition using DNN.

Masters Dissertation Thesis | Indian Institute of Technology Bombay, India

Aug 2015 – June 2016

- Studied the pitch, intensity and duration of utterances using techniques such as one way ANOVA.
- Identified the acoustic correlates of stress in Marathi language using MATLAB and PRAAT.
- Modelled these acoustic features in different lexical stress locations and focus types.

PUBLICATIONS

- S. Barhate, S. Kshirsagar, N. Sanghvi, K. Sabu, P. Rao, N. Bondale "Prosodic Features of Marathi News Reading Style", Proc. Of IEEE TENCON, Nov 2016, Singapore.
- P. Rao, H. Mixdorff, I. Deshpande, N. Sanghvi and S. Kshirsagar "A Quantitative Study of Focus Shift in Marathi", Proc. Of Speech Prosody, May 2016, Boston, U.S.A.

EDUCATION

Institute National de la Recherche Scientifique, Montreal, Canada

Jan 2018 – Present

PhD in Telecommunication | Specialization: Speech Processing

IIT Hyderabad, India

Dec 2016 – Dec 2017

Advance courses in Speech Signal Processing & Machine learning

Mumbai University, India

Aug 2010 – July 2016

Bachelors & Masters in Electronics and Telecommunication Engineering

Bachelor's Percentage: 72.64%

Master's Specialization: Signal Processing | CGPA: 9.08/10

TECHNICAL PROFICIENCY

Programming Languages: C, C++, Python

Software Packages: Praat, MATLAB

TEACHING EXPERIENCE:

Private Tutor

May 2015 – Dec 2016

Taught following courses to undergraduate engineering students:

Signal and Systems, Random Signal analysis, Linear Algebra, Probability and Random Variables

Author, Solution Manual

Feb 2015

Formulated solutions for engineering exams held between years 2011 – 2014 by Mumbai University.

INTERNSHIP:

Doordarshan Kendra (National Television Channel, India)

July 2013

- Field study of signal processing equipment used in broadcasting.
- Understood and visualized the signals at each stage of transmission.