

RESEARCH INTERESTS	My research interests are mainly in the application of machine learning and statistics to speech and audio signal analysis. I am currently working on emotion morphing in speech which is a sub-domain of expressive speech synthesis.
EDUCATION	<div><div>Johns Hopkins University (2017 - present) Ph.D. student, Department of Electrical and Computer Engineering <i>Advisor:</i> Dr. Archana Venkataraman</div><div>Indian Institute of Technology, Guwahati (2011 - 2015) Bachelors in Technology (BTech.) in Electronics and Electrical Engineering <i>Advisors:</i> Dr. S.R.M Prasanna and Dr. S. Sundaram</div></div>
PUBLICATIONS	<div><div><i>A Deep-Bayesian Framework for Adaptive Speech Duration Modification</i> Ravi Shankar, Archana Venkataraman Under Submission.</div><div><i>Non-parallel Emotion Conversion using a Deep-Generative Hybrid Network and an Adversarial Pair Discriminator</i> Ravi Shankar, Jacob Sager, Archana Venkataraman Published in Interspeech 2020. ***Virtual</div><div><i>Multi-speaker Emotion Conversion via Latent Variable Regularization and A Chained Encoder-Decoder-Predictor Network</i> Ravi Shankar, Hsi-Wei Hsieh, Nicolas Charon, Archana Venkataraman Published in Interspeech 2020. ***Virtual</div><div><i>A Multi-Speaker Emotion Morphing Model Using Highway Networks and Maximum Likelihood Objective</i> Ravi Shankar, Jacob Sager, Archana Venkataraman Published in Interspeech 2019. **Oral</div><div><i>VESUS: A Crowd-Annotated Database to Study Emotion Production and Perception in Spoken English</i> Jacob Sager, Ravi Shankar, Archana Venkataraman Published in Interspeech 2019. **Oral</div><div><i>Weakly Supervised Syllable Segmentation by Vowel-Consonant Peak Classification</i> Ravi Shankar, Archana Venkataraman Published in Interspeech 2019. *Poster</div><div><i>Automated Emotion Morphing in Speech Based on Diffeomorphic Curve Registration and Highway Networks</i> Ravi Shankar, Hsi-Wei Hsieh, Nicolas Charon, Archana Venkataraman Published in Interspeech 2019. *Poster</div><div><i>Spoken Keyword Detection Using Joint DTW-CNN</i> Ravi Shankar, Vikram C.M., S.R.M Prasanna Published in Interspeech 2018. **Oral</div><div><i>Spoken Term Detection using DTW and Morphological Operations</i> Ravi Shankar, Arpit Jain, Deepak K.T., Vikram C.M., S.R.M Prasanna</div></div>

Published in **NCC 2016**. ***Poster**

INVITED TALKS *Variational Cycle-GAN for Emotion Morphing*, **CIS Seminar, JHU**

WORK	<i>iOS Developer</i> , Housing.com , Mumbai	<i>(June 2015 - Sep 2015)</i>
EXPERIENCE	<i>Research Staff</i> , University of Alberta , Edmonton	<i>(Sep 2015 - Jan 2016)</i>
	<i>Data Scientist</i> , CaRPM , Gurgaon	<i>(Jan 2016 - Aug 2016)</i>
	<i>Research Staff</i> , IDIAP Research Institute , Martigny	<i>(Dec 2017 - June 2017)</i>

HONOURS AND
AWARDS

ISCA 2020 Travel Award for Encoder-Decoder-Predictor model.

MINDS Data Science Research Fellowship (JHU) for 2019-20 and 2020-21.

Institute Merit Scholarship (IIT Guwahati) for 2012-13.

DAAD-WISE Scholarship (German Academic Exchange Program) for 2014.

Merit-Cum-Means Scholarship (IIT Guwahati) for 2012-13, 2013-14 and, 2014-15.

Graduate Research Fellowship (JHU) for 2017-18.

REFERENCES Available on request.