

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><b>Johns Hopkins University</b> (2017 - present) Ph.D. student, Department of Electrical and Computer Engineering <i>Advisor:</i> Dr. Archana Venkataraman</div><div><b>Indian Institute of Technology, Guwahati</b> (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> <b>Ravi Shankar</b>, Archana Venkataraman Under Review.</div><div><i>Non-parallel Emotion Conversion using a Deep-Generative Hybrid Network and an Adversarial Pair Discriminator</i> <b>Ravi Shankar</b>, Jacob Sager, Archana Venkataraman Published in <b>Interspeech 2020. ***Virtual</b></div><div><i>Multi-speaker Emotion Conversion via Latent Variable Regularization and A Chained Encoder-Decoder-Predictor Network</i> <b>Ravi Shankar</b>, Hsi-Wei Hsieh, Nicolas Charon, Archana Venkataraman Published in <b>Interspeech 2020. ***Virtual</b></div><div><i>A Multi-Speaker Emotion Morphing Model Using Highway Networks and Maximum Likelihood Objective</i> <b>Ravi Shankar</b>, Jacob Sager, Archana Venkataraman Published in <b>Interspeech 2019. **Oral</b></div><div><i>VESUS: A Crowd-Annotated Database to Study Emotion Production and Perception in Spoken English</i> Jacob Sager, <b>Ravi Shankar</b>, Archana Venkataraman Published in <b>Interspeech 2019. **Oral</b></div><div><i>Weakly Supervised Syllable Segmentation by Vowel-Consonant Peak Classification</i> <b>Ravi Shankar</b>, Archana Venkataraman Published in <b>Interspeech 2019. *Poster</b></div><div><i>Automated Emotion Morphing in Speech Based on Diffeomorphic Curve Registration and Highway Networks</i> <b>Ravi Shankar</b>, Hsi-Wei Hsieh, Nicolas Charon, Archana Venkataraman Published in <b>Interspeech 2019. *Poster</b></div><div><i>Spoken Keyword Detection Using Joint DTW-CNN</i> <b>Ravi Shankar</b>, Vikram C.M., S.R.M Prasanna Published in <b>Interspeech 2018. **Oral</b></div><div><i>Spoken Term Detection using DTW and Morphological Operations</i> <b>Ravi Shankar</b>, 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> , <b>Housing.com</b> , Mumbai	<i>(June 2015 - Sep 2015)</i>
EXPERIENCE	<i>Research Staff</i> , <b>University of Alberta</b> , Edmonton	<i>(Sep 2015 - Jan 2016)</i>
	<i>Data Scientist</i> , <b>CaRPM</b> , Gurgaon	<i>(Jan 2016 - Aug 2016)</i>
	<i>Research Staff</i> , <b>IDIAP Research Institute</b> , 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.