

# Meghavarshini KRISHNASWAMY

## PERSONAL DATA

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## WORK EXPERIENCE

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OCTOBER 2017 - JULY 2019

Research Associate at SPEECH AND LANGUAGE PROCESSING  
LABORATORY, EFL UNIVERSITY, Hyderabad  
*DST-CSIR Project "Influence of Coarticulation on Lexical  
Access"*

- Designed the protocol and visual prompts for an Ultrasound study to analyse the effects of coarticulatory resistance and lingual adjustments on voiced geminates in Bengali.
- Conducted pilot Ultrasound studies on intervocalic voiceless geminate stops in Malayalam.
- Compiled text corpora of target words and distractors for a series of acoustic, Ultrasound, and Visual World studies to analyse intervocalic geminates in Malayalam.
- Compiled a text corpus of monosyllabic Hindi words for a joint EMA study with Potsdam University, under Dr. Adamantios Gafus.
- Recorded and annotated a corpus of Mongolian words for a controlled acoustic study on vowel harmony. Currently working on formant analysis of the data.
- Synthesised audio stimuli for related Visual World studies, using cross-splicing and manipulating acoustic features such as formants, duration and pitch.
- Currently working on a protocol for training RNNs for automatic recognition of retroflex stops in Ultrasound images.

MAY 2015 - APRIL 2017

Fellow at TEACH FOR INDIA, Hyderabad

Class Teacher, Grade 6, Grace Model School, Hyderabad (a low-income private school)

- Taught English and Science in a Grade 6 classroom, and Environmental Sciences in a Grade 5 classroom as a full-time teacher.
- Underwent rigorous teacher-training programs for classroom management, curriculum development, subject-matter expertise and syllabus design.
- Raised approximately 82,000 INR through a crowdfunding campaign to set up a digital classroom, class library and fund a sports training program as part of the fellowship. (<https://www.ketto.org/fundraiser/mindswithoutfear>)

## EDUCATION

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APRIL 2015	M.A. in LINGUISTICS, <b>The English and Foreign Languages University</b> , Hyderabad
APRIL 2013	B.A. (Hons) in ENGLISH, <b>Lady Shri Ram College</b> , <b>The University of Delhi</b> , Delhi

## CONFERENCES AND PUBLICATIONS

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DECEMBER 2018	“Articulatory complexity and lexical contrast density in models of coronal coarticulation in Malayalam”, ICPhS 2019
NOVEMBER 2018	“Active cavity expansion through lingual adjustments to place of constriction in voiced geminates”, <i>Proceedings of Meetings on Acoustics</i>
OCTOBER 2018	“Lingual adjustments aid active cavity expansion in Bengali voiced geminates”, Presentation at the Annual Conference of Cognitive Science, IIT-Guwahati
MAY 2018	“Evidence for active cavity expansion through advanced lingual place of constriction in voiced geminates”, Presentation at the 175 <sup>th</sup> ASA Meeting, Minneapolis, <a href="https://doi.org/10.1121/1.5035741">https://doi.org/10.1121/1.5035741</a>

## ACTIVE PROJECTS AND FUTURE PAPERS

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JANUARY 2019	A Visual World study of lexical access in voiceless Malayalam stops
JANUARY 2019	Modelling voiceless retroflex stops from Ultrasound images using RNNs
DECEMBER 2018	“Sparse lexical representation coerces coarticulatory resistance: Ultrasound evidence from Malayalam coronal geminates”

## INTERNSHIPS

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MAY 2016 - JUNE 2016	<p>Research Associate at KARADI PATH EDUCATION COMPANY, Chennai</p> <p>Worked on session plans and teacher-aids for <i>Magic Hindi</i>, a classroom for Hindi language teaching for non-native speakers in secondary classrooms.</p> <ul style="list-style-type: none"><li>• Was responsible for editing the Hindi translation to make it more accessible, engaging and contemporary, and assisted in copyediting the book of Hindi rhymes that was to accompany the product.</li><li>• Edited the English versions of existing session plans, designed session plans for the teachers’ handbook, based on the new stories and poems to be included in the curriculum that year.</li><li>• helped perform quality checks on the first and second draft of the product.</li></ul>
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## LANGUAGES

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ENGLISH: Fluent

HINDI: Native Speaker

TAMIL: Mother Tongue

GERMAN: Certificate of Proficiency from EFL University, Hyderabad

SANSKRIT: School Certificate (grade 10) Level

## COMPUTER AND TECHNOLOGY SKILLS

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Basic Knowledge: R, Praat Scripting, Command Line, PYTHON, Emacs, Regex

Intermediate Knowledge: Articulate Assistant Advanced for Ultrasound systems, Praat, HTML,  $\text{\LaTeX}$

## INTERESTS AND ACTIVITIES

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Open-Source Technology, Programming, Education, Design Thinking

Laboratory Phonetics, Natural Language Generation

Tabletop Gaming, Yarn Art, Fitness