Meghavarshini Krishnaswamy (Megh)

PERSONAL DATA

MAILING ADDRESS: Department of Linguistics, Communication Bldg. Room 109,

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WORK EXPERIENCE

AUGUST 2019 - Present

Graduate Assistant at Department of Linguists, University of Arizona

- Research Assistant, ASIST-ToMCAT project (Summer 2020-present)
- Research Assistant, Douglass Phonetics Lab (Spring and Fall, 2020)
- Teaching Assistant and grader for LING 150 "Language in the World" (Fall 2019)

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.

WORK EXPERIENCE

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

MAY 2021	M.S., Human Language Technology, University of Arizona
APRIL 2015	M.A., LINGUISTICS, The English and Foreign Languages University, Hyder-
	abad
APRIL 2013	B.A. (Hons), ENGLISH, Lady Shri Ram College, The University of Delhi, Delhi

CONFERENCES AND PUBLICATIONS

John Culnan, Seongjin Park, Meghavarshini Krishnaswamy, and Rebecca Sharp. Me, myself, and ire: Effects of automatic transcription quality on emotion, sarcasm, and personality detection. In *Proceedings of the Eleventh Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis*, pages 250–256, 2021.

Meghavarshini Krishnaswamy, Indranil Dutta, and Maumita Bhaumik. Alveolar stops exhibit greater coarticulatory resistance than retroflexes and dentals in Malayalam. *The Journal of the Acoustical Society of America*, 148(4):2582–2582, 2020.

Indranil Dutta, Charles Redmon, Meghavarshini Krishnaswamy, Sarath Chandran, and Nayana Raj. Articulatory complexity and lexical contrast density in models of coronal coarticulation in Malayalam. In *Proceedings of the 19th International Congress of Phonetic Sciences*, 2019.

Meghavarshini Krishnaswamy, Indranil Dutta, and Ushasi Banerjee. Active cavity expansion through lingual adjustments to place of constriction in voiced geminates. In *Proceedings of Meetings on Acoustics 175ASA*, volume 33, page 060002. Acoustical Society of America, 2018.

Ushasi Banerjee, Indranil Dutta, and Meghavarshini Krishnaswamy. Evidence for active cavity expansion through advanced lingual place of constriction in voiced geminates. *The Journal of the Acoustical Society of America*, 143(3):1754–1754, 2018.

ACTIVE PROJECTS AND FUTURE PAPERS

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

MAY 2016 -JUNE 2016

Research Associate at KARADI PATH EDUCATION COMPANY, Chennai

Worked on session plans and teacher-aids for *Magic Hindi*, a classroom for Hindi language teaching for non-native speakers in secondary classrooms.

- 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.
- 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.
- · helped perform quality checks on the first and second draft of the product.

LANGUAGES

ENGLISH: Fluent

HINDI: Native Speaker TAMIL: Mother Tongue

GERMAN Certificate of Proficiency from EFL University, Hyderabad

SANSKRIT School Certificate (grade 10), Central Board of Secondary Education, India

COMPUTER AND TECHNOLOGY SKILLS

Basic Knowledge: Praat Scripting, Command Line, Emacs, Regex, Scala, C,

Scikit Learn, SQL

Intermediate Knowledge: R, PYTHON, Praat, HTML, LATEX

INTERESTS AND ACTIVITIES

Open-Source Technology, Programming, Education, Design Thinking Laboratory Phonetics, Natural Language Generation Tabletop Gaming, Yarn Art, Fitness