Online Opportunities – 4 Open Enrollment Experiments  
May 12, 2023 – July 7, 2023

You may choose to participate in all experiments (on different days/weeks) or any of the following experiments with open enrollment listed below.

Open Enrollment for Remote (Online) Experiments
1. Melodic Contour Assessment – Approx. 1.5 hours
2. Speech Enhancement in Naturalistic Environments (Remote/Online OR In-Lab Experiment) – Approx. 2 hours
3. Non-Speech Sound Assessment – Approx. 2.5-3 hours
4. *Intelligibility of Speech Modification Sound Coding Strategies – Approx. 3 hours

*Requires participant to request clinical MAPS from the audiologist in order to test with the CCi-MOBILE Research Platform and delivery of laptop/research processor to home

We strongly encourage you to participate in all experiments!

Online Experiment #1: Melodic Contour Assessment (Online)
This experiment consists of listening to short musical melodies and identifying the overall note pattern, such as notes that are increasing in pitch or decreasing in pitch, etc. Participants will be asked to classify each melody as one of five possible patterns containing varying notes and pitch ranges. This study aims to examine factors affecting pitch/melodic contour perception.

Participation
- 1-1.5 hours – This experiment is participant-driven, self-paced, without the presence of an investigator

Equipment Required
- A computer/laptop with internet access
  - If you do not have a computer/laptop, the CILab will provide one for you
  - For those who are not comfortable using a computer/laptop or working online, our research team will set up a virtual, online meeting (via Zoom) to walk you through the testing website

Contact Information and Enrollment Process
- To participate in this study, contact the lead investigator directly to schedule your online testing time/date
- Ava Brueggeman: Avamarie.Brueggeman@utdallas.edu
Online or In-Person Experiment #2: Speech Enhancement in Naturalistic Environments (In-Lab or Online)
This experiment consists of listening to unprocessed and de-noised (enhanced) speech in various noisy environments such as, in train station, a car or in the presence of multiple talkers. Participants will be asked to listen to both types of sentences with and without various degrees of noise and repeat the words/phrases from the sentences. Participants will also be asked to rate the quality and distortion level of the enhanced signal.

Participation
- 1-2 hours – This experiment can be completed online and/or remotely or in person/in the lab
- This is a two-part experiment: both parts will be completed in the same testing appointment

Equipment Required
- For online/remote experiments: A computer/laptop with internet access
  - If you do not have a computer/laptop, the CILab will provide one for you
  - For those who are not comfortable using a computer/laptop or working online, our research team will set up a virtual, online meeting (via Zoom) to walk you through these steps
- For online/remote experiments: Amazon WorkSpaces Software Client (CCi-Evaluate) – Instructions Provided
  - Our research team can set up a virtual, online meeting (via Zoom) to get you familiar with the testing setup
  - Online resources such as step-by-step guides and videos will be provided!

Contact Information
- To participate in this study, contact the research coordinator to schedule your online or in-person testing time/date
- Dr. Juliana Saba: juliana.saba@utdallas.edu

Online Experiment #3: Non-Speech Sound Assessment (Online)
This experiment consists of listening to competing speech between various non-speech sounds, such as cats, door creaks, water running, etc. Participants will also be asked to listen to an enhanced version of one of sounds and rate the quality, distortion, and separation quality compared to the mixed signal (with competing speaker).

Participation
- 2.5-3 hours – This experiment is participant-driven, self-paced, without the presence of an investigator

Equipment Required
- A computer/laptop with internet access
  - If you do not have a computer/laptop, the CILab will provide one for you
  - For those who are not comfortable using a computer/laptop or working online, our research team will set up a virtual, online meeting (via Zoom) to walk you through these steps
- Amazon WorkSpaces Software Client (CCi-Evaluate) – Download Instructions Provided
  - Our research team can set up a virtual, online meeting (via Zoom) to get you familiar with the testing setup
  - Online resources such as step-by-step guides and videos will be provided!

Contact Information and Enrollment Process
- To participate in this study, contact the research coordinator to schedule your online testing time/date
- Dr. Juliana Saba: juliana.saba@utdallas.edu
Online or In-Person Experiment #4: Intelligibility of Speech Modification Sound Coding Strategies (In-Lab or Online)

This experiment asks participants to listen to speech (sentences) processed with algorithms that change the way the speech sounds acoustically and electrically. Each participant will listen to sentences in quiet (noise-free) and in a single noise condition and asked to verbally repeat the words/sentences that were heard. The sentences will be streamed directly to the participants RF coil using the CCI-MOBILE Research Platform.

Participation
- 2.5-3 hours – This experiment consists of 20 individual conditions which take between 10-15 minutes each. Breaks will be administered as often as the participant desires and offered every 30 minutes.
- This experiment can be completed online and/or remotely or in person/in the lab

Equipment Provided
- The CILab will provide a laptop or tablet delivered to your home in addition to the CCI-MOBILE Research Platform (provided)
  - For those who are not comfortable using a computer/laptop or working online, our research team will set up a virtual, online meeting (via Zoom) to walk you through these steps

Equipment Required
- Clinical MAPS for use with the CCI-MOBILE Research Platform (provided)
- Technology checkout form (provided, for laptop delivery to home)
- Pre-registration is required for new CI users so the team can contact your audiologist and receive your clinical MAPS prior to your testing date to ensure our research configuration is the same as your clinical configuration (processor)
  - A link will be provided from the research coordinator

Contact Information
- To participate in this study, contact the lead investigator directly to schedule your in-person testing time/date
- Dr. Juliana Saba: juliana.saba@utdallas.edu