

Consent Form***Linguistic analysis of infant- and child-directed speech in one's first and second languages***
(Study #2020s0310)**Who is conducting the study?**

Dr. Henny Yeung and members of his research lab (Andrew Cheng, Elise McClay, Angelica Lai) in Linguistics at Simon Fraser University.

Contact for information about the study.

Questions can be sent to henny_yeung@sfu.ca.

Who is funding this study?

This study is funded by the Social Sciences and Humanities Research Council of Canada (SSHRC) under their Insight Grants program.

Why are we doing this study?

We want to learn more about how caregivers use their first and second languages when speaking with or around their children, and we are especially interested in describing the acoustics of speech to children in these languages. Additionally, we want to gather data about speech to children in both languages, to be placed in a researcher data bank for the later study of language and communication with infants and children. As a bilingual parent or legal guardian of a normal hearing 6-18 month old infant, you are being invited to take part in this study.

Your participation is voluntary.

You have the right to refuse to participate in this study. If you decide to participate, you may still choose to withdraw from the study at any time without any negative consequences to you or your child to which you are entitled or are presently receiving.

How is this study done?

This study will take about 1 full day if you agree and will occur in your home and daily environment the entire time. The LENA recorder can record for up to 16 hours so it will be a total of 16 hours of recording time. These recorder will be worn by your child, and it will record sounds in close proximity to the child.

If you say 'Yes', here is how we will do the study:

- You will receive two of our LENA recorders in the mail along with 2-3 LENA shirts, a LENA log journal, a pre-stamped return envelope/box along with a return checklist.
- You will then choose one day to record. On the chosen day, the child should stay primarily indoors and avoid interactions with adults other than the parents as much as possible.

- During the chosen day of recording, you will dress your child with the LENA shirt, turn the LENA device on, hit record, and put it into the LENA shirt pocket.
- You will also need to fill out the LENA log journal by describing your child's environment, including physical locations, people present, languages being spoken and the activities being done.
- At the end of the day, you will take the LENA shirt off your child, keeping the LENA recorder in the pocket as it will power off by itself.
- You will then complete the rest of the LENA log journal by noting down end of day activities as well as your evaluation of whether that was a typical day for your family.
- After completing the recording day, you will mail back the items indicated on the return checklist in the pre-stamped envelope/box.

Will you be paid for taking part in this research study?

No, but you will receive a gift card for a local business with a value of \$30 and your child will receive an age-appropriate gift (a small article of clothing or children's book) at the end of the study. If you decide to withdraw early, you and your child will still be granted the mentioned compensation.

What are the risks & benefits of participating?

We do not think that participating in this study could harm you or your child. The LENA device is a small, child-safe recorder that children wear for a day at a time. It meets U.S. and international safety standards for electronics and toys. Unlike a cell phone, it does not transmit, and it uses the same type of low-power processors as hearing aids.

We do not think taking part in this study will help you or your child, but others may benefit from what we learn in the future, as we want to learn more about how different languages during infancy and childhood are used. However, because the LENA device has a built in processor for speech data, we can also provide to you an estimated word count (a computerized estimate of how many words from adults your child says in a day) and an estimated vocalization count (how many speech-like vocalizations your child makes in a day), for your own personal record of your child's development by checking the option after clicking "Next".

How will your privacy be maintained?

Your confidentiality will be respected. Information that discloses your identity will not be released without your consent unless required by law. In addition:

- Your name, address, contact information and other direct personal identifiers within the questionnaire will not be mentioned in any such publication or dissemination of the research data.

- In accordance to TalkBank's policies (<https://talkbank.org/share/irb/options>), all references to last names or your address will be removed from the transcripts and audio bleeped in the recordings (Level 2 and 4).
- Study data will be kept on password-protected computers, and limited to the PI and his research assistants. No paper records will be collected or kept.
- LENA also takes security seriously and has implemented a multitude of technologies and processes to protect data. They are Type II SOC 2 compliant, meaning that every year an outside group audits LENA to confirm that they have appropriate data and privacy protections in place and are using them correctly.
- Please note that posting to comments sections on social media or other forums about this study may identify you as a participant. We therefore suggest that if this study was made available to you via a social media site or other online forums, you refrain from posting comments to protect your anonymity.
- The virtual meeting is hosted by Zoom, a US company, and as such, is subject to the USA Patriot Act and CLOUD Act. These laws allow government authorities to access the records of host services and internet service providers. By choosing to participate, you understand that your participation in this study may become known to US federal agencies.

We would also like to upload and archive your data for web listening to the HomeBank corpus database (<https://homebank.talkbank.org/>), an online research repository of language and communication and part of the larger TalkBank project (<https://talkbank.org>), only available to other language researchers (i.e., it is not publically accessible).

You will be asked to opt in or out after clicking "Next". If you **do not** wish for your data to be included into this archive, we will then only use your data for our current analysis without uploading to the online repository.

What if you decide to withdraw your consent to participate?

Your participation is voluntary. You are free to stop participation at any point during the study. Refusal to participate or withdrawal of your consent or discontinued participation in the study will not result in any penalty or loss of benefits or rights to which you may otherwise be entitled. You also have the right at any time to have your data removed from the study as well as the database. There are no restrictions or limitation to when you can withdraw your data. If you choose to withdraw your data for any reason, please contact langdev@sfu.ca

Study results

The main study findings will be published in academic journal articles or presented at academic conferences. We will also try to let you know when the study is complete, and you will be able to review overall results of the study at a web link that we will send you.

Future use of participant data

Current best practices in research include open access initiatives, which involve the sharing of study data with researchers from other universities to stimulate the future use and exploration of existing data sets. This study's data will be uploaded to HomeBank's online research repository upon completion, stripped of identifying information (name, email, etc.) to ensure confidentiality. All users of TalkBank within HomeBank are asked to abide by their policies to further ensure confidentiality and ethical conduct of sensitive data (<https://homebank.talkbank.org/rules.html>).

Permission for future use of data is not granted if "Do not archive my data" has been checked off. Destruction of this data will then occur within 7 years after collection.

Future contact

We may want to invite you to participate in future studies. You will be asked to check a box after clicking "Next" on whether you would like to opt in or out for us to contact you in the future for this purpose:

Parent/Guardian consent

By clicking "Next", you agree that the above information has been explained to you and all your current questions have been answered. You understand that you may ask questions about any aspect of this research study during the course of the study and in the future.

Taking part in this study is voluntary. Both you and your child have the right to refuse to participate. If you take part, you or your child may pull out of the study at any time without giving a reason and without negative impact by sending an email to langdev@sfu.ca. By clicking on the "next" button on the screen, you indicate that you have received a copy of this consent form for your own records, and that you consent to you and your child's study participation.

Contact for Complaints

Concerns about your rights as a research participant and/or your experiences while participating in this study, can be addressed by Dr. Jeffrey Toward, Director, Office of Research Ethics (jtoward@sfu.ca or 778-782-6593).