Department of Psychology

Lancaster University

Fylde College

Lancaster

LA1 4YF

**Participant Information Sheet**

**Title of the study:**

**Speech segmentation in 12-14 Month-Old Infants: Do multiple cues help language learning?**

Dear parents, we kindly invite you and your infant to take part in this study supervised by Profs. Padraic Monaghan and Gert Westermann. Participation is voluntary. You can find our contact information at the bottom of this page.

The goal of this study is to find out if certain cues can help infants to identify individual words in speech and learn new names for new objects. This study will shed light on some important aspects of language learning in infants.

We would like to remind you that participation is voluntary, and you can withdraw your child from the study at any time, with no explanation and with no adverse consequences. If you decide to withdraw after the data have been already collected you have 15 days to communicate your decision, in which case the data from your infant will not be used and will be destroyed. If you do not ask to withdraw within 15 days from data collection the data will be stored in a password protected computer at the Department of Psychology at Lancaster University and will be analysed.

If you wish for your infant to participate in this study this is what will happen.

You will stay with your infant during the whole experimental session. Your child will be seated on your lap in front of a computer screen, with speakers positioned to either side. Your child will hear some new words, and some animations will play on the screen for your child to watch. Then, your child will hear a word or a non-word played from the speaker at one side of the computer screen or the other, and we will measure how long your child looks in the direction of the sound. The whole experiment should not take longer than 10 minutes.

If your child shows any sign of discomfort we will give him/her a break providing some entertainment. You can ask us to stop the experiment at any time.

After collection, the data will be anonymised, that is we will assign your infant an identification number and it will not be possible for anybody to get the identity of your child (name, or any personal information). Video files and analysis files (but no identifying information) will be uploaded to the LuCiD shared drive at the University of Manchester.  This is in accordance with the UoM’s requirement that all personal data that is stored electronically (in this case video and audio files) is held on wholly managed University servers. The LuCiD shared drive is monitored and maintained by the Centre Manager.   Access to the LuCiD drive by LuCiD researchers is controlled by the Centre Manager as informed by (a) one of the Directors and (b) the relevant Work Package lead.  Only LuCiD researchers working on a particular Work Package will have direct access to the shared space for that project. Other LuCiD researchers may be allowed access to data with permission from the Work Package lead.  Access by non-LuCiD researchers has to be agreed at a Directors’ meeting.  A master data management file will be kept at the University of Manchester on the LuCiD shared drive and will contain details of the location of consent forms, interviewer notes, data set names, file format, storage and archiving.   After 2020, the data may be made available to other researchers, on request, to conduct further analyses. Anonymity of your child’s data will be maintained at all times, and only summaries of data will be included in any resulting publications or reports. Images or videos will not be reproduced or published at any point.

The consent form will be stored separately from the data and will only be accessible to Prof. Padraic Monaghan, Prof Gert Westermann, and the researchers who collected the information.

The data from this project will be used only for scientific purposes (e.g. scientific conferences, talks, papers), but no individually identifiable information will be available to the scientific community.

There is no cost to partake in this research project. You will be paid a total of £10.00, to reimburse travel expenses incurred for taking take part in this study.

If you have any concerns or complaints about this project then you may contact our Head of Department, Kate Cain, who is not involved in the project.

Contact details:

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| *Researchers:*  Dr. Rebecca Frost  *Email:* [r.frost1@lancaster.ac.uk](mailto:e.parise@lancaster.ac.uk)  Dr. Kirsty Dunn  *Email:* [k.dunn@lancaster.ac.uk](mailto:k.dunn@lancaster.ac.uk)  *Head of Department*:  Prof. Kate Cain  *Email*: [hod.psychology@lancaster.ac.uk](mailto:c.lewis@lancaster.ac.uk)  *Telephone:* +44 (0)1524 593822  *Address*: Dept. of Psychology Lancaster University  Fylde College Lancaster LA1 4YF | *Principal investigator*:  Prof. Padraic Monaghan  *Email*: [p.monaghan@lancaster.ac.uk](mailto:p.monaghan@lancaster.ac.uk) |  |

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**Participant Consent Form**

A copy of this form should be given to the parent.

Participant Number \_\_\_\_\_\_\_

**Title of the study:**

**Speech segmentation in 12-14 Month-Old Infants: Do multiple cues help language learning?**

Infant’s name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date of birth: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* I confirm that I have read and understand the Participant Information Sheet and I have been given full information about the study. \_\_\_\_
* I confirm that I agree my infant to participate in this study by my own free will. \_\_\_\_
* I have spoken to the researcher and understand that my infant’s participation will involve a presentation of new words, and that their eye-movements during these sounds will be timed \_\_\_\_
* I understand that this research will not cause any harm to my infant. \_\_\_\_
* I confirm that all of my questions for the present study have been answered and I am aware that I am able to contact the researcher and/or the Head of Department if I have any further questions. \_\_\_\_\_
* I understand that the participation of my infant is voluntary and that I am able to withdraw them at any time, without giving reason and with no adverse consequences. \_\_\_\_\_
* I understand that if I choose to withdrawal my infant’s participation from this study within 15 days after the data collection, all records will be removed from the collection and analysis. Anytime following this date, I will be unable to remove the collected data. \_\_\_\_\_
* I understand that only the researcher, from the University of Lancaster, who is working on the project will have access to mine and my child’s personal details, and that these details will be kept strictly confidential. \_\_\_\_\_
* I understand that this research is a scientific project that may lead to a journal publication. \_\_\_\_\_
* I understand that any data or information used in any publications, which arise from this study, will be anonymous. \_\_\_\_\_
* I understand that all data will be stored securely and will be protected. \_\_\_\_\_
* I agree for my child to participate in the above study. \_\_\_\_\_
* I consent for my child’s data to be desposited in the open access UK data archive (please tick and initial)

Video Data: YES \_\_\_ NO \_\_\_\_

Audio Data|: YES \_\_\_ NO \_\_\_\_

Anonymised Data : YES \_\_\_ NO \_\_\_\_

Parent’s name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

Researcher’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

Contact details:

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| --- | --- | --- |
| *Researchers:*  Dr. Rebecca Frost  *Email:* [r.frost1@lancaster.ac.uk](mailto:e.parise@lancaster.ac.uk)  Dr. Kirsty Dunn  *Email:* [k.dunn@lancaster.ac.uk](mailto:k.dunn@lancaster.ac.uk) | *Principal investigator*:  Prof. Padraic Monaghan  *Email*: [p.monaghan@lancaster.ac.uk](mailto:p.monaghan@lancaster.ac.uk) | *Head of Department*:  Prof. Kate Cain  *Email*: [hod.psychology@lancaster.ac.uk](mailto:c.lewis@lancaster.ac.uk)  *Telephone:* +44 (0)1524 593822  *Address*: Dept. of Psychology Lancaster University  Fylde College Lancaster LA1 4YF |

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**Participant Debrief Sheet**

**Title of the study:**

**Speech segmentation in 12-14 Month-Old Infants: Do multiple cues help language learning?**

Researcher(s) name: Rebecca Frost and Kirsty Dunn

This study aims to investigate whether hearing certain words more often along with other helpful cues (such as head movements to the thing spoken about, or emphasis for the new word in the speech) can help infants to learn the language. We particularly are interested in finding out whether infants are better able to spot individual words from speech that contains words that frequently occur, compared with speech containing words that all occur the same number of times. We think that hearing some words more often will help infants to figure out which are the other words in a sentence.

For this purpose we familiarised your infant with new words that appeared at the same time as new objects on the computer screen. We also gave multiple cues to help them give the new name to the correct object. These included head movements, emphasising certain words, and some marker words that indicated whether the word was an object word or an action word. We will look at how long your child looked in the direction of the object that is named by the new word, to figure out which object they preferred to look to, and this will tell us if they used the cues to learn the names of the objects.

The Ethics Committee at the University of Lancaster has approved this research.

All of the personal data collected during your visit will be strictly confidential and will be held securely. Only researchers will have access to anonymised data. You have 15 days to withdraw from this study. If you withdraw within this period the data we collected from your infant will be destroyed. If you have any further questions regarding your visit and the research, please do not hesitate to contact us. We will be happy to help.

If you have any concerns or complaints about the project, then please contact Kate Cain, Head of Department, who is not involved in the project.

**Thank you for your time and participation in our research!**

*If you are interested in reading more about this topic, here are some suggestions:*

Altvater, N. (2013). Word-form familiarity bootstraps infant speech segmentation.

*Developmental Science, 16 (6),* 980-990.

Bortfeld, H., Morgan, J.L., Golinkoff, R.M., & Rathbun, K. (2005). Mommy and me: familiar names help launch babies into speech-stream segmentation. *Psychological Science, 16,* 298-304.

Mersad, K. & Nazzi, T. (2012). When mommy comes to the rescue of statistics: Infants combine top-down and bottom-up cues to segment speech. *Language learning and Development, 8*(3), 303-315.

Contact details:

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| *Researchers:*  Dr. Rebecca Frost  *Email:* [r.frost1@lancaster.ac.uk](mailto:e.parise@lancaster.ac.uk)  Dr. Kirsty Dunn  *Email:* [k.dunn@lancaster.ac.uk](mailto:k.dunn@lancaster.ac.uk) | *Principal investigator*:  Prof. Padraic Monaghan  *Email*: [p.monaghan@lancaster.ac.uk](mailto:p.monaghan@lancaster.ac.uk) | *Head of Department*:  Prof. Kate Cain  *Email*: [hod.psychology@lancaster.ac.uk](mailto:c.lewis@lancaster.ac.uk)  *Telephone:* +44 (0)1524 593822  *Address*: Dept. of Psychology Lancaster University  Fylde College Lancaster LA1 4YF |