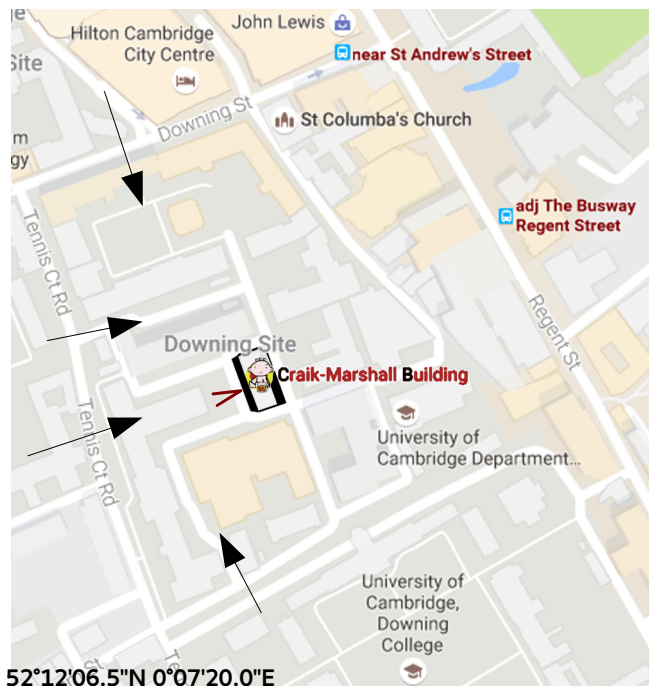


**Dear Parents! Come share with us your infant's progress in language!  
and help us to help other children**



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Facebook



**CNE BabyLab**



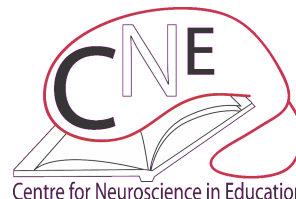
Centre for Neuroscience in Education

How does the brain learn  
language ?

Why do some infants speak earlier than others?

Help us discover *how babies process sounds*  
and *build their vocabulary*

so we can **help all children** to learn language better.



UNIVERSITY OF  
CAMBRIDGE



# Babies got rhythm ....

## HEAR SPEECH, LEARN LANGUAGE

Language lies at the heart of our experience as humans and disorders of language acquisition carry severe developmental costs.

Recent results in auditory neuroscience show that speech processing depends on brain wave rhythms aligning to rhythms in speech. So the infant brain needs to learn to "copy" the rhythms produced when we talk.

Consequently, successful language acquisition by infants must depend in part on successful rhythmic processing

In the next months, our research team will launch an ambitious project to "drill down" into the relationship between brain rhythms, speech rhythms and language acquisition.



**We need your help and the help of your baby (from 2 to 11 months) to better understand the factors determining language outcomes.**

## HOW TO HELP US

We can measure your baby's brain activity without them feeling anything. This involves wearing a kind of "hair net" to measure brain waves. The net is completely harmless and does not hurt in any way.

Ideally, we need you to visit our brain imaging centre once a month from 2 months - 11 months, and listen to rhythms. This will allow us to measure the progress of your baby's brain in processing rhythm.

Then we will visit you at home, and record vocabulary development, to link brain activity to your infant's progress in speech

Discover more about auditory neuroscience on our website: XXXXX

## THE **Baby**lab AT Centre for Neuroscience in Education

Our centre is conveniently situated near to John Lewis on Downing Street and we can provide parking. All the studies will take place in our baby-friendly lab and our team will do their best to make each session a fun time for you and your baby. You can come and visit our Centre and our team before decide to participate.

Meet us ! at FACEBOOK



## PARTICIPATE IN OUR RESEARCH

### What will happen to me if I take part?

You will be asked to visit the Centre on 8 occasions with your infant for brain imaging during your infant's first year via electroencephalography (EEG). Your infant will be with you at all times during your visit to the Centre. Each EEG session takes approx 20 minutes, but the visit overall may last 1 - 2h.

### What does EEG measurement involve?

The EEG measurement technique involves wearing a special head cap and is completely safe for your infant. You will be free to opt out of any part of the study at any time, and if for any reason you feel uncomfortable, you can withdraw your child completely at any time.

### Expenses and payments

We are able to reimburse any costs incurred by you (travel, etc) involved in participation. Your baby will also receive some small presents to thank them.

### What are the possible disadvantages and risks ?

**None.** This project has received clearance from the Cambridge Psychology Research Ethics Committee.

### What are the possible benefits of taking part?

You will get insights into how quickly language-related skills develop, even before your baby can speak.