

## EXTERNAL ADVERT TEXT

### STUDY NAME:

Language, executive function, and social participation across the adult lifespan: An EEG study

### BRIEF ABSTRACT:

An EEG study investigating the relationship between language, executive functions and social interactions throughout adult life.

### DETAILED DESCRIPTION:

This study uses questionnaires to look at your experiences of social inclusion and electroencephalography (EEG) to measure your brain's response during performance of language and executive function tasks. You will be invited to attend a session in the EEG Lab in Zochonis Building, lasting approximately 2.5 hours.

An EEG cap (like a stretchy swimming cap with holes in it) will be placed on your head, the holes will be filled with gel, and electrodes will be placed in the holes to measure EEG, around your eyes to measure eye movements and blinks and on your throat and jaw to measure articulation movements.



Once the EEG setup is complete, we will record EEG whilst you perform tasks using language and an executive functions. The language tasks will include both comprehension and production of spoken language, the executive function tasks will require you to respond to cues on the computer screen.

Afterwards, we will remove the cap and electrodes, and you will be given the opportunity to wash the gel out of your hair. You will then be asked to complete questionnaires about loneliness, social contact and social support, as well as occupation, education and income and a brief cognitive test.

### IMPORTANT NOTES

We will also ask you to complete questionnaires on your feelings and experiences of loneliness and social isolation. This will help us look for relationships between language/executive function and social participation. **If you would prefer not to answer such questions, please do not participate.**

Please only participate in this study if you meet the eligibility requirements (below). If you have any questions, please contact the researchers.

### ELIGIBILITY REQUIREMENTS:

Age 20-40 or 60-80  
Native British English speakers  
Normal or corrected-to-normal vision  
Normal Hearing

Right-handed

No history of or present experience of neurological or psychiatric disorders (e.g., depression, epilepsy)

Not currently taking any psychoactive medication (e.g., antidepressants)

DURATION:

2.5 hours

REMBURSEMENT:

£20 (plus £5 for travel or parking with valid receipt).

RESEARCHER:

If you are interested in taking part please contact Josie Kearney  
(josephine.kearney@manchester.ac.uk)

PRINCIPAL INVESTIGATOR:

Dr Jason Taylor

DNEP Ethics Approval Code: 2021-12350-20455 Ethics Approval Expiration: 27/08/2026