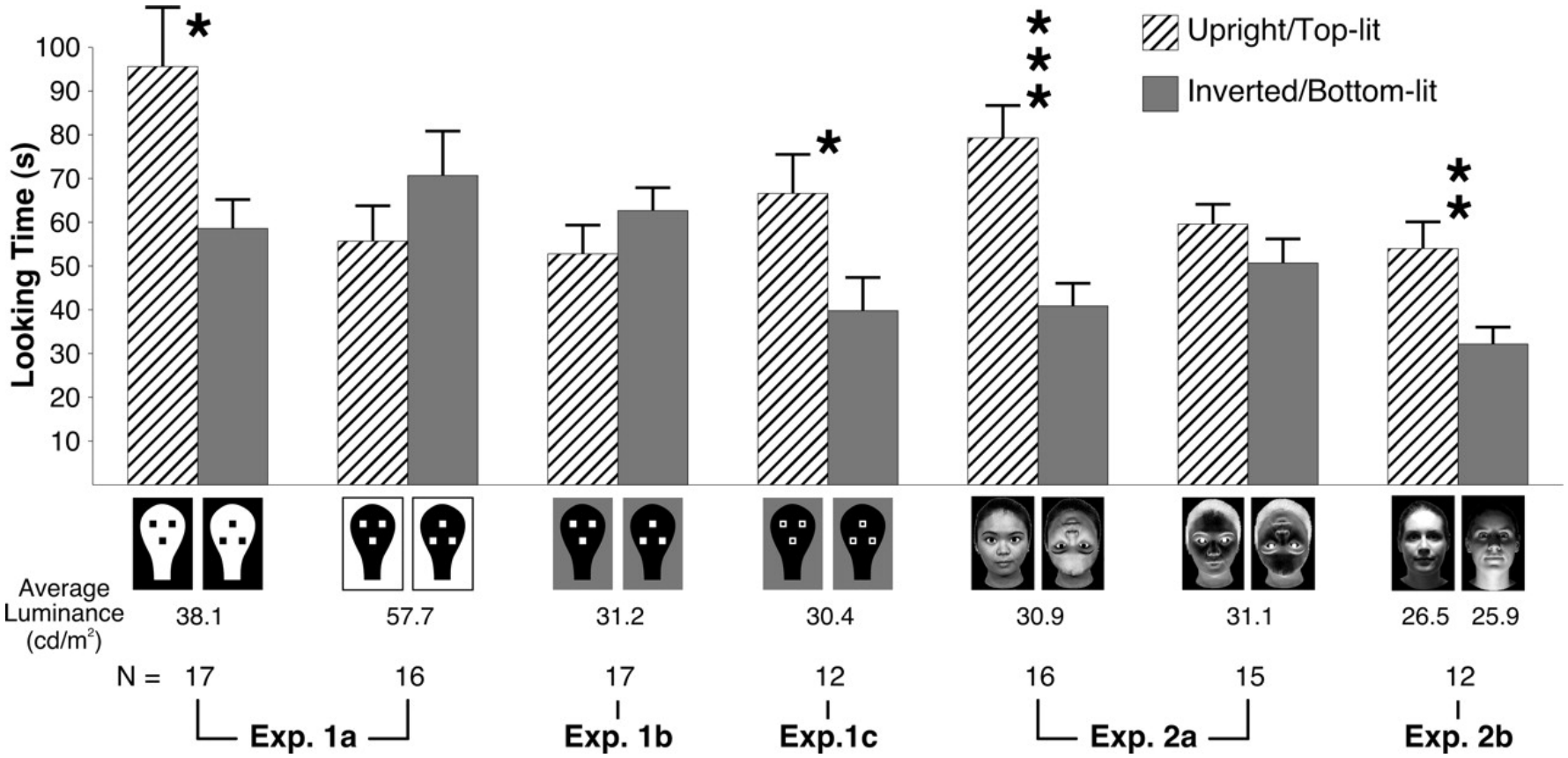
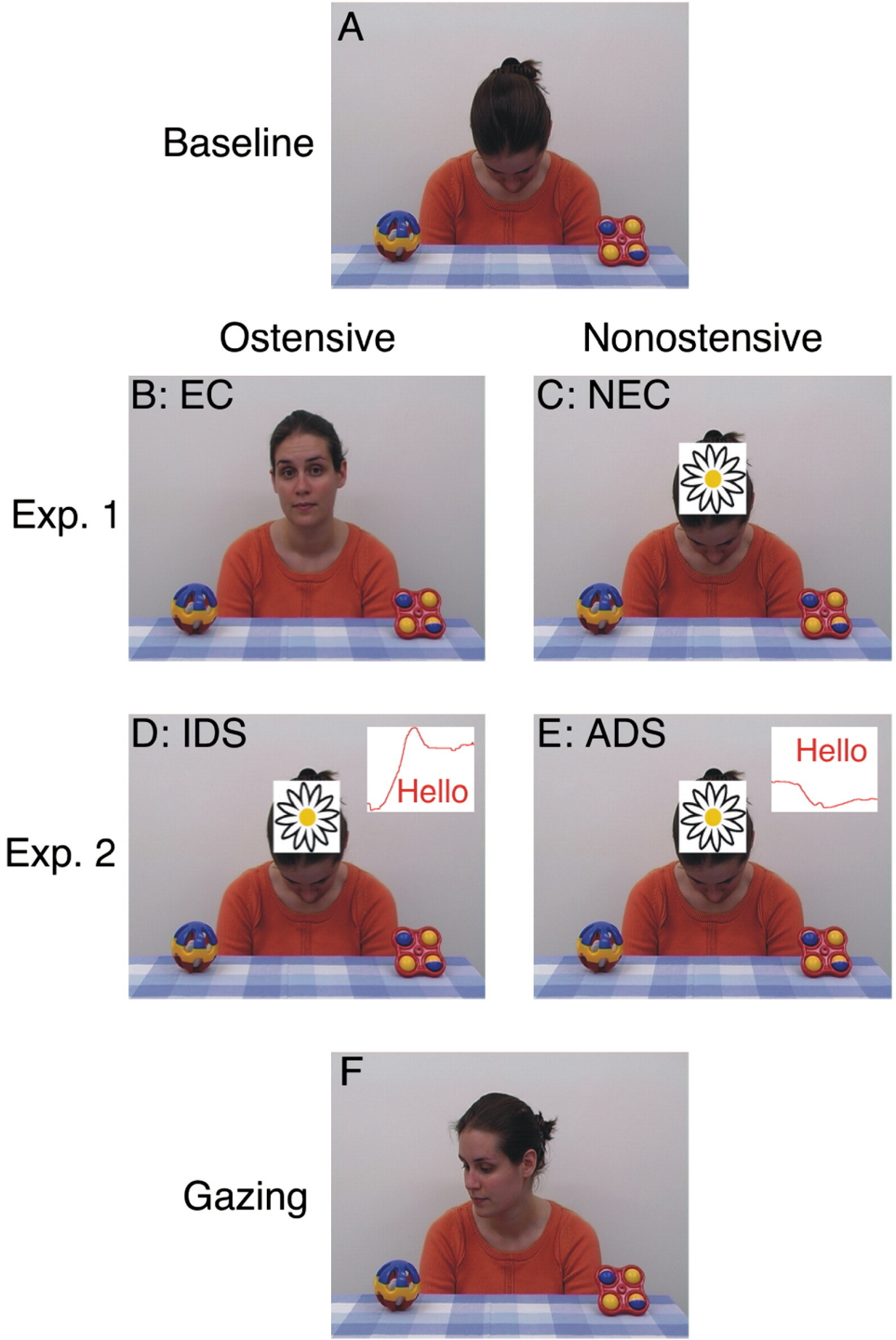
Development of a cognitive neuroscientist: A photo album

Evelyne Mercure

Goldsmiths, University of London

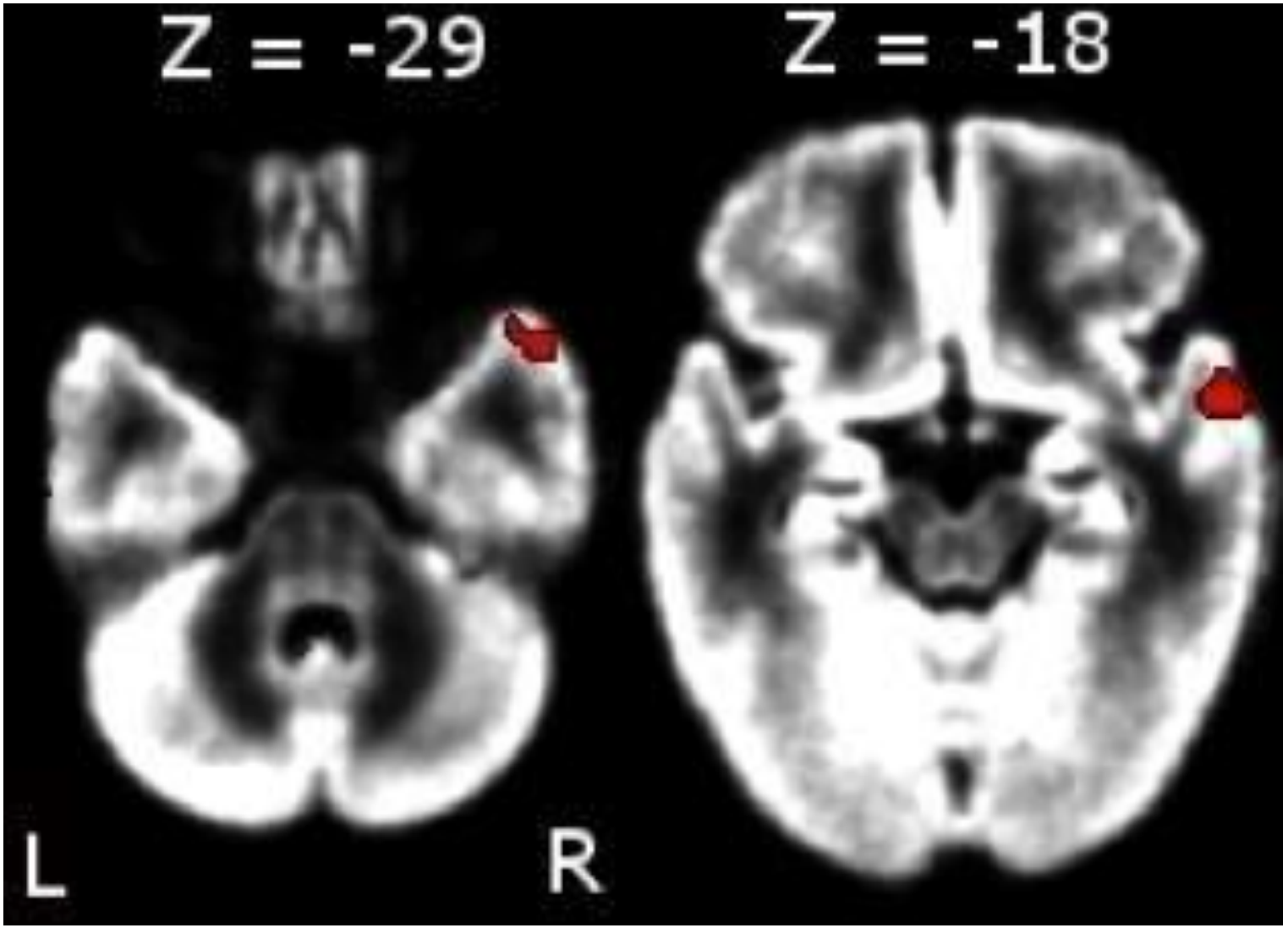


Teresa et al., 2005



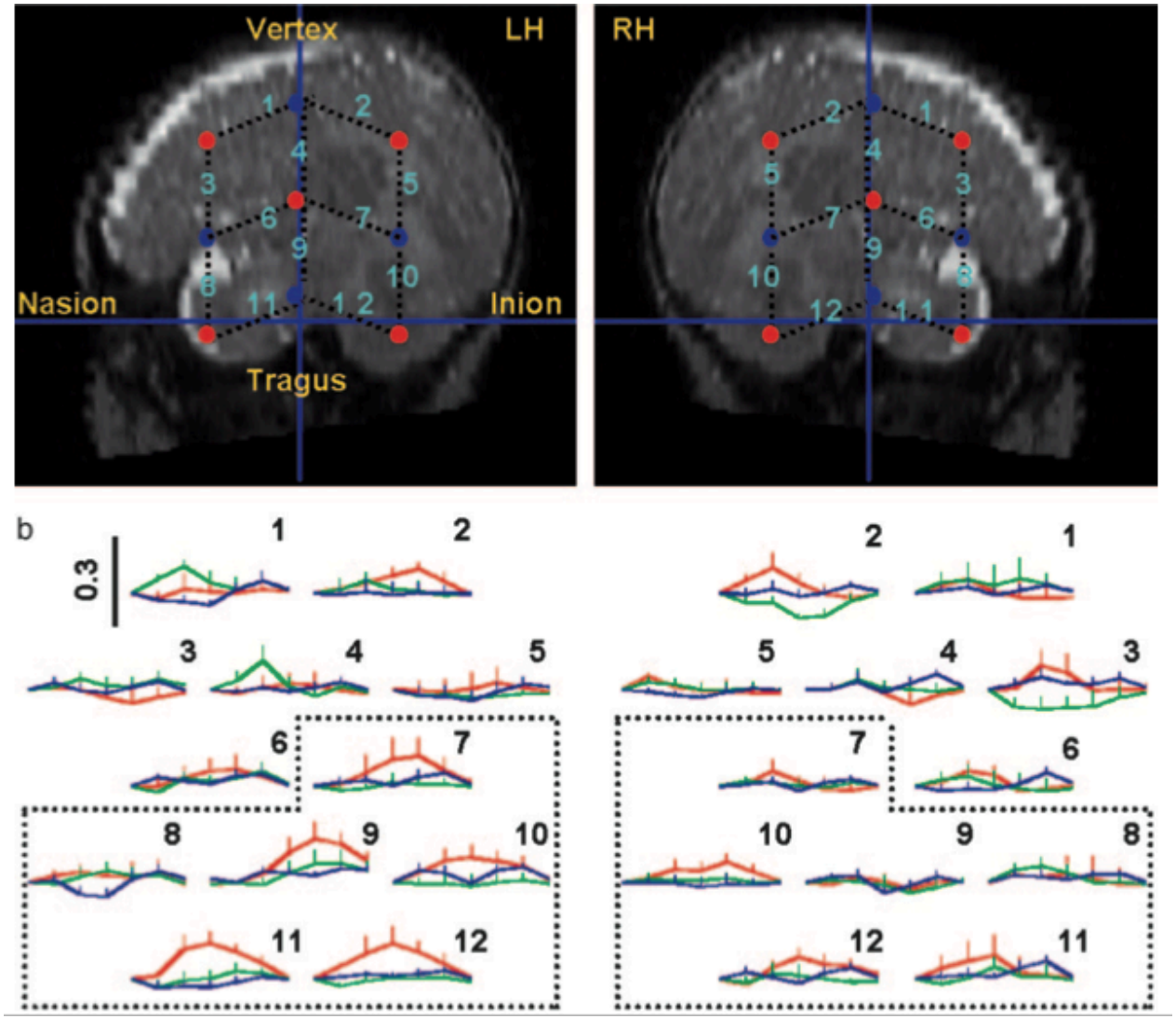
Atsushi et al. (2008)

Brain activation to voices in infancy



(Anna, Evelyne et al., 2011)

Brain activation to language in newborns



(Pena et al., 2003)

Hearing babies with deaf mothers

Impact of experience on early communication

Social touch
Work in progress with Laura Pirazzoli and Alma Puts Keren

Audiovisual speech perception
Mercure et al.(2018) Dev Sc

Spoken and sign language development

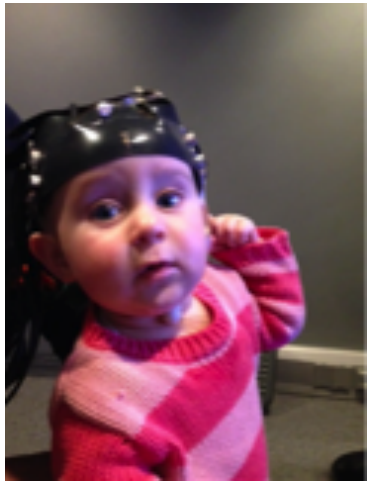
Eye contact and joint attention
Work in progress with Przemek Tomalski and Alicja Radkowska

Brain activation for spoken and signed language
Mercure et al. (2019) Neurobiology of Language

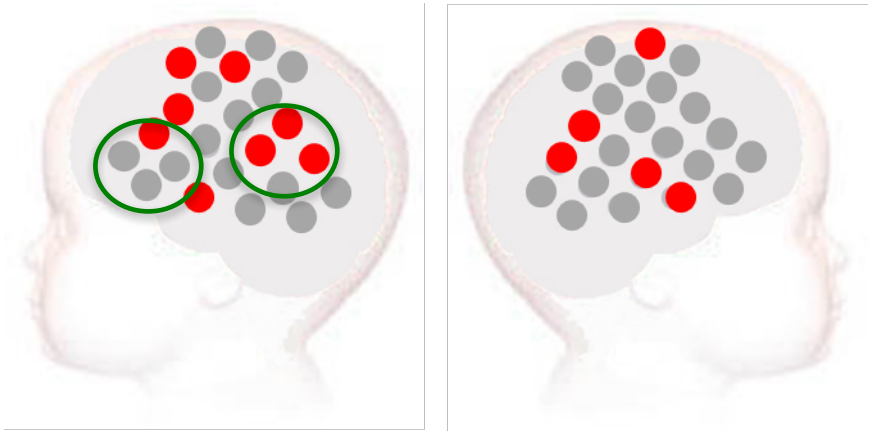
Attachment and maternal sensitivity
Bowden-Howl, Dallos, Mercure (submitted)

Visual attention to faces
Mercure et al. (2018) Frontiers in Psychology

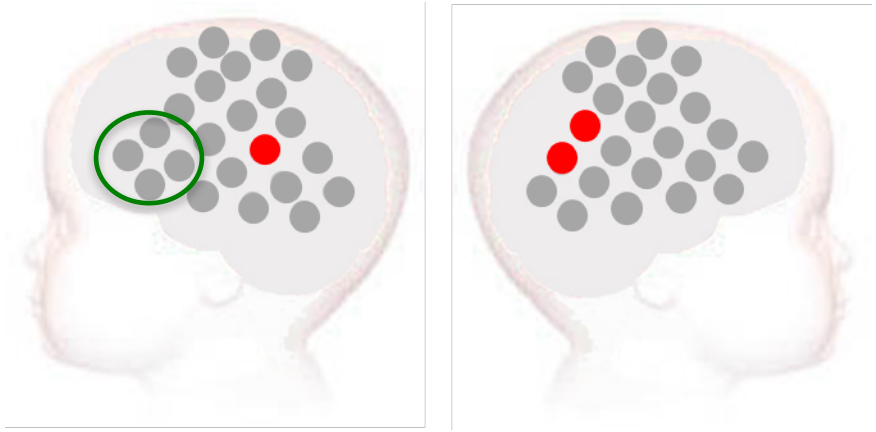
Brain activation for *spoken* language



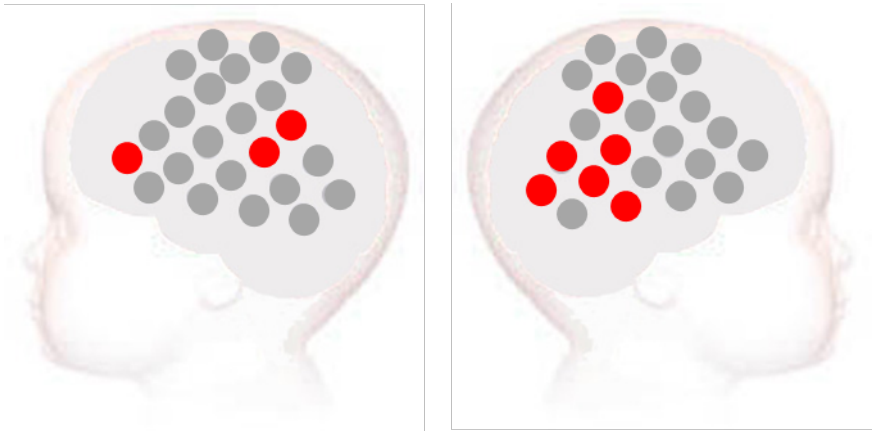
Monolinguals



Bimodal bilinguals



Unimodal bilinguals



● HbO2 increase $p < 0.05$

Mercure et al. (2019) Neurobiology of Language

Lessons learned from CBCD

- Multiple levels of explanation (observational, behavioural, cognitive, brain activation…)
- Multiple methods (PCI, eye-tracking, standardised assessments, brain imaging methods)
- Multiple populations
- Developmental trajectories

DCAL
DEAFNESS COGNITION AND LANGUAGE RESEARCH CENTRE

UCL

Mairéad MacSweeney

Kim Coulson

Laura Goldberg

Hattie Bowden

Victoria Mousley

Indie Beedie

Roberto Filippi

Teodora Gliga

UEA
University of East Anglia

Babylab

Birkbeck
UNIVERSITY OF LONDON

UNIVERSITY OF CAMBRIDGE

Isabel Quiroz

Laura Pirazzoli

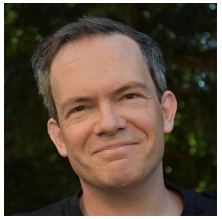
Sarah Lloyd-Fox

Mark H. Johnson

Elena Kushnerenko

Samuel Evans

UNIVERSITY OF WESTMINSTER



Peter Bright

Anglia Ruskin University

UEL
University of East London

Przemek Tomalski

Alicja Radkowska

Aleksandra Dopierala

UNIVERSITY OF WARSAW

Many thanks to

- **all families who participated in the study,**
- **the Speak & Sign team**

E·S·R·C ECONOMIC & SOCIAL RESEARCH COUNCIL

BRITISH ACADEMY