



Taking neuroimaging into the home: Brain and behaviour associations in neonates

Ilyka, D. ^a, Blanco, B. ^a, Carnevali, L. ^b, Weiss, S.M. ^a, Rozhko, M. ^a, Clackson, K. ^c, Greenhalgh, I. ^a, Johnson, M.H. ^a and Lloyd-Fox, S. ^a

^a Department of Psychology, University of Cambridge, Cambridge, UK, ^b Department of Developmental Psychology and Socialization, University of Padova, Padova, Italy, ^c Department for Applied Mathematics and Theoretical Physics, University of Cambridge, UK

Can <u>high-quality</u> neuroimaging data be recorded at <u>home longitudinally</u>? Are there changes in how newborns process <u>vocal and non-vocal auditory</u> stimuli in the <u>first month of life</u>? Does newborn processing of sounds relate to their <u>early behaviour</u>?





Can high-quality neuroimaging data be recorded at home longitudinally?









Can high-quality neuroimaging data be recorded at home longitudinally?







Are there changes in how newborns process vocal and non-vocal auditory stimuli in the first month of life?

See the poster for more info ...







Non-vocal non-social sounds: rattle, ball, running water









Does newborn processing of sounds relate to their early behaviour?





Acknowledgements

Johnson



Sarah Lloyd-Fox





Staci

Weiss



Borja

Blanco





Dianna Ilyka

Noelia **Corral Ferre**

Industry partner



Clackson











Topun Austin

Cristina de la Xiangyi Ma Iglesia

at CUHS

Sonographers

through URKI FLF





Dodd

Rozhko











Teresa Farroni, SDPS, Laura Katus, Padova Uni Greenwich



Isobel

Greenhalgh

Emily Jones, BBK

Carnevali





Tony Charman, KCL Andrew Pickles, KCL