

Samuel H. Forbes

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EMPLOYMENT

- 2021 -** **Assistant Professor in Developmental Science**, Department of Psychology, Durham University
- 2018 - 21** **Senior Research Associate**, School of Psychology, University of East Anglia
Supervisor: Prof. John P. Spencer
Project: Probing the neural basis of visual working memory in development (NIH). [5pt]

EDUCATION

- 2014 - 18** **DPhil**, Experimental Psychology - University of Oxford, United Kingdom
Advisors: Prof. Kim Plunkett & Dr E. Matthew Husband
Dissertation: Colour word and colour category learning in infants and toddlers
Funding: Rhodes Scholarship
- 2011 - 13** **MA (Research and Coursework)**, Linguistics and Applied Linguistics, - Nanjing Normal University, PR China
Advisor: Assoc. Prof. Liang DanDan
Dissertation: A Comparative Study of the Use of the Perfective Aspect Under Narrative Conditions of English and Mandarin Children
Funding: Chinese Scholarship Council
- 2010 - 11** **Cert Lang**, Mandarin Chinese, - Nanjing Normal University, PR China
- 2009** **Grad Cert**, Asian Studies, - University of Tasmania, Australia
- 2006 - 08** **BA**, Japanese and Mandarin, - University of Tasmania, Australia

FUNDING AND AWARDS

- 2020** **Award for Special Merit in Research**, University of East Anglia
- 2019** **Flux Society Travel Award** \$1000 USD for conference travel
- 2019** **LCICD Fee Waiver** valued at approximately £250
- 2017** **Brasenose College Hulme Completion Grant** funding associated with thesis completion.
- 2017** **Brasenose College Grant** funding for conference attendance £448
- 2016** **Brasenose College Grant** funding for conference attendance £450
- 2016 - 18** **Brasenose College Senior Hulme Scholarship** for outstanding DPhil performance

- 2015** **Brasenose College Grant** funding for conference attendance £436
- 2014 - 18** **Rhodes Scholarship** Tasmania
- 2010 - 13** **Chinese Scholarship Council Award** for 4 years' study in PRC
- 2007 - 08** **Japan Student Services Organization Award** for 1 year exchange in Japan

PEER-REVIEWED PUBLICATIONS

- In Press** Visser, I., Bergmann, C., Byers-Heinlein, K., Dal Ben, R., Duch, W., Forbes, S.H., ... et al. Improving the generalizability of infant psychological research: The ManyBabies model. *Behavioural and Brain Sciences*.
Preprint available at PsyArXiv <https://doi.org/10.31234/osf.io/8vwbfb>.
- 2021** Defenderfer, J., Forbes, S.H., Wijekumar, S., Hedrick, M., Plyler, P., & Buss, A. Frontotemporal activation differs between perception of simulated cochlear implant speech and speech in background noise: An image-based fNIRS study. *Neuroimage*. 240, 118385.
- 2021** Forbes, S.H., Wijekumar, S., Eggebrecht, A., Magnotta, V., & Spencer, J.P. Processing pipeline for image reconstructed fNIRS analysis using both MRI templates and individual anatomy. *Neurophotonics*. 8(2), 025010.
Preprint also available at bioRxiv <https://doi.org/10.1101/2021.01.14.426719>
- 2021** Forbes, S.H. & Plunkett, K. The development of contour processing abilities in the second year. *Developmental Psychology*. 57(5), 639-650.
- 2021** Wahab, A.G.A., Forbes, S.H., Cattani, A., Goslin, J., & Floccia, C. An adaptation of the MacArthur-Bates CDI in 17 Arabic dialects for children aged 8 to 30 months. *Language Learning and Development*.
- 2020** Forbes, S.H. (2020). PupillometryR: An R package for preparing and analysing pupillometry data. *Journal of Open Source Software*. 5(50), 2285.
- 2020** Delgado Reyes, L., Wijekumar, S., Magnotta, V.A., Forbes, S.H., & Spencer J.P. (2020). The functional brain networks that underlie visual working memory in the first two years of life. *NeuroImage*. 219, 116971.
- 2020** Forbes, S.H., & Plunkett, K. (2020). Linguistic and cultural variation in early color word learning. *Child Development*. 91(1), 28-42.
- 2019** Forbes, S.H., & Plunkett, K. (2019). The role of colour labels in mediating infant visual attention. *Cognition*. 186, 159-170.
- 2019** Forbes, S.H., & Plunkett, K. (2019). Infants show early comprehension of basic colour words. *Developmental Psychology* 55(2), 240-249.
- 2017** Forbes, S.H., & Plunkett, K. (2017). Early colour word learning in British infants. *Proceedings CogSci*, 367-372.
- 2015** Liang D.D., Song, Y.Q., Forbes, S.H. (2015). A contrastive study of the perfective aspect use in English and Chinese children's narratives. *Foreign Language Teaching and Research* 7(1), 81-93.

PUBLICATIONS UNDER REVIEW

- Under Review** Forbes, S.H., Aneja, P., & Guest, O. The myth of (a)typical development
Infant and Child Development
Preprint available at PsyArXiv <https://psyarxiv.com/ajynp/>
- Under Review** Fu, X.W., Forbes, S.H., & Liang, D.D. High functioning autistic children's abilities in scalar implicature of the term "Some".
Research in Autism Spectrum Disorders.

OPEN SOURCE SOFTWARE CONTRIBUTIONS

- 2020** Forbes, S.H. digitizeR
<https://github.com/samhforbes/digitizeR>
- 2019** Forbes, S.H. PupillometryR: An R package for preparing and analysing pupillometry data.
<https://github.com/samhforbes/PupillometryR>
- 2019** Forbes, S.H. DDLab: Common eyetracking functions needed in the Developmental Dynamics Lab. <https://github.com/samhforbes/DDLab>

SUPERVISION

- 2020 - 21** **Tyler Wallace (MSc)** — The origins of early executive attention
- 2018 -** **Undergraduate supervision**
- Responsible for supervising 2 undergraduate psychology student projects per year
- Responsible for marking student dissertations

TEACHING

- 2019 - 21** **Demonstrator** Undergraduate courses, UEA
- Running and assisting with practical demonstrations in the fNIRS lab
- 2019 - 21** **Seminar leader** Cognitive Masters course, UEA
- Designed and ran a lecture and demonstration on theory and practice of fNIRS
- 2019 - 21** **Seminar leader** Developmental Masters course, UEA
- Designed and ran a lecture on replicability and publishing in Developmental Psychology
- 2019** **Seminar leader** PhD course, UEA
- Designed and ran a workshop on open science and replicability for PhD students
- 2017** **Seminar leader** Language and Cognition, Oxford
- Redesigned and ran a core practical in MATLAB on research design for undergraduates
- 2015 - 18** **Tutor** Language and Cognition, Oxford
- Responsible for tutoring groups of 3 students at multiple colleges
- 2011 - 13** **Lecturer & Course Co-ordinator** Foreign and National Education, NJNU
- Designed and lectured 2 units per year to both of 3rd and 4th year undergraduates
- Responsible for examination and grading of students

INVITED TALKS

- Feb. 2021** **University of York**
Title: Mommy and me: Using cross-cultural methods to understand links between infant and mothers cognition.
Host: Eve Holden
- Feb. 2021** **University of Oslo**
Title: Was Whorf Half Right? Examining Colour Words and Colour Perception.
Host: Prof. Julien Mayor
- Sep. 2020** **BASIS 2020**, Virtual conference
Title: Examining sleep and neural development in early infancy.
- June 2019** **CLEAR 2019**, Potsdam
Title: PupillometryR: A framework for investigating pupillometry data in R.
- Sep. 2018** **University of Sussex** Department of Psychology:
Title: Colour Word and Colour Category Learning in Infants and Toddlers
Host: Prof. Anna Franklin
- Feb. 2018** **Oxford Brookes University** Department of Psychology:
Title: The Effect of Colour Word Learning on Colour Category Knowledge
Host: Dr. Nayeli Gonzalez-Gomez

RECENT CONFERENCE PRESENTATIONS

- Aug. 2021** 6th Lancaster Conference on Infant and Early Child Development (LCICD), Virtual
Poster Forbes, S.H., McCarthy, J., Grewal, J., Spencer, J.P.
Shining light on the links between sleep and visual working memory in infancy
- Sep. 2020** Flux Virtual Conference.
Poster Forbes, S.H., Wijeakumar, S., Delgado Reyes, L., Kumar, A., Magnotta, V., Spencer J. Assessing the development of visual working memory in a global context: The INDIA Project.
- July 2020** Virtual International Conference on Infant Studies (ICIS)
Poster Forbes S.H. PupillometryR: An R tool for measuring infant visual behaviour through pupil size
- July 2020** Virtual International Conference on Infant Studies (ICIS)
Poster Bakopoulou, M.E., Forbes, S.H., Lorenz, M.G., Tremlin, R., Bates, J., Samuelson, L.
Visual exploration in novel noun generalization task: A window on the relationship between vocabulary and shape bias
- July 2020** Virtual International Conference on Infant Studies (ICIS)
Poster Forbes, S.H., Wijeakumar, S., Delgado Reyes, L., Kumar, A., Magnotta, V., Spencer, J.P. Assessing the development of visual working memory in a global context: The INDIA project

PUBLIC ENGAGEMENT

- May 2019** **Pint of Science, Norwich**
- 3 Nights of presenting neuroscience and psychology fact or myth quiz
- Sep. 2017** **Oxford Curiosity Carnival**
- Public engagement explaining work and playing games with parents and children

- July 2016** **UNIQ Summer School**
 - Presented an interactive introduction and workshop on testing infants
 - For outstanding State School students interesting in studying at Oxford
- Feb. 2016** **Oxford Making Links** St Catherine's College, Oxford
 - Presented a portion of research to teachers involved in early years teaching
- Sep. 2015** **Belfast Baby Day**
 - Presented two invited talks to mothers and researchers at inaugural Belfast Baby Day

PROFESSIONAL EXPERIENCE

- 2014 - 18** **Webmaster** Oxford University BabyLab
 - Managed Lab website and social media sites
- 2015 - 17** **Graduate Mentor** Department of Experimental Psychology, University of Oxford
 - Mentored 2 first-year DPhil students each year
- 2015 - 16** **President** Brasenose College Hulme Common Room (HCR)
 - Responsible for overseeing graduate common room of approximately 250 members
- 2013 - 14** **Executive Assistant to the Arts** St Michael's Collegiate School, Tasmania
 - Responsible for administration in Arts faculty of leading girl's school

TECHNICAL SKILLS

- Statistics** **R** Bayesian hierarchical modeling, mixed effect modeling, survival analysis, GAMs
 - Familiar with STAN, JAGS, lme4, brms, ggplot2, etc
MRI Analysis Structural and mcDESPOT
- Coding** R, Python, Matlab, \LaTeX
- Testing** Infant & Adult Eye-tracking, Pupillometry, fNIRS, Head-mounted eye-tracking