

Samuel H. Forbes

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EMPLOYMENT

2018 - **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).

EDUCATION

2014 - 18 **DPhil**, Experimental Psychology - University of Oxford, United Kingdom
Advisors: Prof. Kim Plunkett & Dr E. Matthew Husband
Dissertation: The Development of Colour Word Knowledge 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

PROFESSIONAL EXPERIENCE

2014 - **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

PUBLICATIONS

- Under Review** Forbes, S.H., & Plunkett, K. The development of contouring abilities in the second year. *Developmental Psychology*.
- Under Review** 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*.
- 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*.
- 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.

OPEN SOURCE SOFTWARE CONTRIBUTIONS

- 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>

CONFERENCE PRESENTATIONS

- 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., Wijekumar, 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

- Sept. 2019** fNIRS UK, Birmingham
Talk Spencer, J.P., Forbes, S.H., Delgado Reyes, L., Magnotta, V.
 Examining changes in visual working memory in early development using fNIRS and structural MRI
- Sept. 2019** fNIRS UK, Birmingham
Poster Forbes, S.H., Delgado Reyes, L., Magnotta, V., Spencer, J.P.
 An fNIRS-based approach to understanding the role of sleep in the development of visual working memory
- Aug. 2019** Annual Meeting of the Flux Society, NY
Poster Forbes, S.H., Delgado Reyes, L., Grewal, J., Deoni, S., Spencer J.P.
 The role of sleep in early infant myelin development
- Aug. 2019** Annual Meeting of the Flux Society, NY
Poster Delgado Reyes, L., Forbes, S.H., Deoni, S., Spencer, J.P.
 The role of toddler myelination in preschool executive function development
- Aug. 2019** 4th Lancaster Conference on Infant and Child Development (LCICD), Lancaster
Talk Forbes, S.H., Delgado Reyes, L., Grewal, J., Deoni, S., Spencer J.P.
 The role of sleep in the development of visual working memory.
- Aug. 2019** 4th Lancaster Conference on Infant and Child Development (LCICD), Lancaster
Talk Forbes, S.H. Measuring infant visual behaviour through pupil size:
 An introduction to PupillometryR.
- Aug. 2019** 4th Lancaster Conference on Infant and Child Development (LCICD), Lancaster
Talk Aneja, P., Forbes, S.H., Spencer, J.P. Visual exploration during parent-infant interaction in India and UK
- July 2019** European Congress of Psychology, Moscow
Talk Forbes, S.H., Delgado Reyes, L., Grewal, J., Deoni, S., Spencer J.P.
 The role of sleep in visual working memory and brain health. Part of a symposium: *Global Brain Health and Development* chaired by S.H. Forbes
- July 2019** European Congress of Psychology, Moscow
Talk Aneja P., Forbes S.H., Spencer J.P. Cultural differences in dyadic interaction using head-mounted cameras. Part of a symposium: *Global Brain Health and Development* chaired by S.H. Forbes
- June 2019** CLEAR 2019, Potsdam
Talk Forbes S.H. PupillometryR: A framework for investigating pupillometry data in R.
- Mar. 2019** Society for Research in Child Development
Poster Forbes, S.H., Delgado Reyes, L.M., Grewal, J., Cassidy, J.R., Spencer, J.P.
 A Neurodevelopmental Approach to Understanding the Role of Sleep in the Development of Visual Working Memory
- Oct. 2018** Biennial Meeting of the Society for fNIRS, Tokyo
Poster Forbes, S.H., Delgado Reyes, L.M., Cassidy, J.R., Spencer, J.P.
 A Neurodevelopmental Approach to Understanding the Role of Sleep in the Development of Visual Working Memory
- Sep. 2018** 2nd British Psychological Society East of England Conference, Norwich
Talk Forbes, S.H., Delgado Reyes, L.M., Cassidy, J.R., Spencer, J.P.
 A Neurodevelopmental Approach to Understanding the Role of Sleep in the Development of Visual Working Memory
- Sep. 2018** 2nd British Psychological Society East of England Conference, Norwich
Talk Aneja, P., Forbes, S.H., & Spencer, JP. Cultural differences in dyadic interaction using head-mounted cameras

- Sep. 2018** 20th ESCON Transfer of Knowledge, Cologne, Germany
Talk Aneja, P., Forbes, S.H., & Spencer, JP. Cultural differences in dyadic interaction using head-mounted cameras
- Sep. 2018** 3rd Lancaster Conference on Infant and Child Development (LCICD), Lancaster
Talk Forbes, S.H., & Plunkett, K. Visual Closure in Early Colour Vision Testing.
- June 2018** Social Communication Across the Lifespan, Canterbury
Poster Aneja, P., Forbes, S.H., & Spencer, JP. Cultural differences in dyadic interaction using head-mounted cameras
- June 2018** Expanding the Field 2018: Multi-disciplinary Developmental Dynamics, Norwich
Poster Mosteller, S., Samuelson, L.K., Wijekumar, S., Forbes, S.H., Ghose Coveney, S., Grewal, J., Johns, E. & Spencer, J.P. Neural Mechanisms of Spatial Coordination During Interactive Word Learning in Early Development
- June 2018** 48th Annual Meeting of the Jean Piaget Society, Amsterdam, The Netherlands
Talk Aneja, P., Forbes, S.H., & Spencer, JP. Cultural differences in dyadic interaction using head-mounted cameras.
- May 2018** The 48th Annual meeting of the Jean Piaget Society, Amsterdam
Talk Mosteller, S., Samuelson, L.K., Forbes, S.H., Wijekumar, S. & Spencer, J.P. Shared Space and Neural Coherence in Early Word Learning.
- Aug. 2017** 2nd Lancaster Conference on Infant and Child Development (LCICD), Lancaster
Poster Forbes, S.H., & Plunkett, K. The Role of Labels in Understanding Contextual Information.
- Aug. 2016** 1st Lancaster Conference on Infant and Child Development (LCICD), Lancaster
Talk Forbes, S.H., & Plunkett, K. The Development of Colour Word Knowledge in Infants and Toddlers
- July 2016** 39th Annual Meeting of the Cognitive Science Society, London
Talk Forbes, S.H., & Plunkett, K. Early Colour Word Learning in British Infants
- July 2016** 39th Annual Meeting of the Cognitive Science Society, London
Poster Forbes, S.H., & Plunkett, K. The Development of Visual Closure in Infancy
- May 2016** 2016 International Conference on Infant Studies (ICIS), New Orleans
Poster Forbes, S.H., & Plunkett, K. The Development of Colour Word Knowledge in Infants and Children

INVITED TALKS

- 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

SUPERVISION

- 2018 -** **Undergraduate supervision**
 - Responsible for supervising 2 undergraduate psychology student projects per year
 - Responsible for marking student dissertations

TEACHING

- 2019 -** **Demonstrator** Undergraduate courses, UEA
- Running and assisting with practical demonstrations in the fNIRS lab
- 2019** **Seminar leader** Cognitive Masters course, UEA
- Designed and ran a lecture and demonstration on theory and practice of fNIRS
- 2019** **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** **Lecturer** 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

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

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, L^AT_EX
- Testing** Infant & Adult Eye-tracking, Pupillometry, fNIRS, Head-mounted eye-tracking

FUNDING AND AWARDS

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