

## SAMUEL DAVID JONES

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### EDUCATION

2017 – 2020 PhD, Lancaster University

2015 – 2017 MA (distinction), University of Nottingham

### ACADEMIC POSITIONS

2022 – Assistant Professor in Developmental Cognitive Neuroscience  
Department of Psychology, Bangor University

2020 – 2022 Senior Research Associate in Developmental Cognitive Science  
Department of Psychology, Lancaster University

### PUBLICATIONS

#### PEER-REVIEWED ARTICLES

**Jones, S. D.**, Jones, M. W., Koldewyn, K., & Westermann, G. (in press). Rational inattention: A new theory of neurodivergent information seeking. *Developmental Science*. Repository: <https://osf.io/je7q/>

**Jones, S. D.**, Stewart, H., & Westermann, G. (2023). A maturational frequency discrimination deficit may explain developmental language disorder. *Psychological Review*. DOI: <https://doi.org/10.1037/rev0000436> Repository: <https://osf.io/x2h8k/>

**Jones, S. D.**, & Westermann, G. (2022). Prediction cannot be directly trained: An extension to Jones and Westermann (2021). *Journal of Speech, Language, and Hearing Research*. DOI: [https://doi.org/10.1044/2022\\_JSLHR-22-00332](https://doi.org/10.1044/2022_JSLHR-22-00332)

**Jones, S. D.**, & Westermann, G. (2022). Under-resourced or overloaded? Rethinking working memory deficits in developmental language disorder. *Psychological Review*. DOI: <http://dx.doi.org/10.1037/rev0000338> Repository: <https://osf.io/ng6dx/>

**Jones, S. D.**, Dooley, M., & Ambridge, B. (2021). Passive sentence reversal errors in autism: Replicating Ambridge, Bidgood, and Thomas (2020). *Language Development Research*. DOI: 10.34842/g1zk-3715 Repository: <https://osf.io/c2pjd/>

Westermann, G., & **Jones, S. D.** (2021). Origins of dissociations in the English past tense: A synthetic brain imaging model. *Frontiers in Psychology*, 12, Article 688908. DOI: 10.3389/fpsyg.2021.688908 Repository: <https://osf.io/ejs4m/>

**Jones, S. D.**, & Westermann, G. (2021). Predictive processing and developmental language disorder. *Journal of Speech, Language, and Hearing Research*, 64, 181–185. DOI: 10.1044/2020\_JSLHR-20-00409 Repository: <https://osf.io/g9zbq/>

**Jones, S. D.**, & Brandt, S. (2020). Density and distinctiveness in early word learning: Evidence from neural network simulations. *Cognitive Science*, 44; e12812. DOI: 10.1111/cogs.12812.

Repository: <https://osf.io/2qk5j/>

- Jones, S. D.** (2019). Accuracy and variability in early spontaneous word production. *First Language*, 40(2), 128–150. DOI: <https://doi.org/10.1177/0142723719894768>. Repository: <https://osf.io/w9y27/>
- Jones, S. D.**, & Brandt, S. (2019). Do children really acquire dense neighbourhoods? *Journal of Child Language*, 46(6), 1260–1273. DOI: 10.1017/S0305000919000473. Repository: <https://osf.io/zfy2p/>
- Jones, S. D.**, & Brandt, S. (2019). Neighbourhood density and word production in delayed and advanced learners. *Journal of Speech, Language, and Hearing Research*, 62(8), 2847–2854. DOI: 10.1044/2019\_JSLHR-L-18-0468. Repository: <https://osf.io/p8ax4/>
- Jones, S. D.**, & Brandt, S. (2018). Auditory lexical decisions in developmental language disorder: A meta-analysis of behavioural studies. *Journal of Speech, Language, and Hearing Research*, 61(7), 1766–1783. DOI: 10.1044/2018\_JSLHR-L-17-0447. Repository: <https://osf.io/2cvnm/>

## WORKING PAPERS

- Jones, S. D.**, & Westermann, G. (submitted). The origins of sentence processing difficulties in developmental language disorder. Preprint: <https://osf.io/eps3y/>
- Bazhydai, M., **Jones, S. D.**, & Westermann, G. (accepted pending data collection). Does curiosity enhance word learning in 18-month-old infants? A Registered Report. *Developmental Science*. Repository: <https://osf.io/tvfgg/> <http://dx.doi.org/10.1037/rev0000338>
- Ambridge, B., Tatsumi, T., Saito, M., Bannard, C., & **Jones, S. D.** (accepted pending data collection). Who did what to whom in Japanese? How do children learn to mark participant roles in basic sentences? *Developmental Science*. Repository: <https://osf.io/j7azp/>

## TALKS

- Max Planck Institute for Psycholinguistics Many Paths to Language (MPaL) Conference, 2023. *Rational inattention: A new theory of neurodivergent information seeking*.
- Lancaster Conference on Infant and Early Child Development (LCICD), 2023. *A maturational frequency discrimination deficit may help explain developmental language disorder*.
- ESRC International Centre for Language and Communicative Development (LuCiD) Conference, 2023. *A maturational frequency discrimination deficit may help explain developmental language disorder*.
- School of Education, Communication and Language Sciences, Newcastle University, 2023, Newcastle, UK. *A maturational frequency discrimination deficit may help explain developmental language disorder*.
- Architectures and Mechanisms for Language Processing conference (AMLaP), 2022. York, UK. *Under-resourced or overloaded? Rethinking working memory deficits in developmental language disorder*.
- Lancaster Conference on Infant and Early Child Development (LCICD), 2022. *Why do children with developmental language disorder struggle with sentences?*
- Centre for Language and Communication Science Research, City, University of London, 2022. *Under-resourced or overloaded? Rethinking working memory deficits in developmental language disorder*.
- Computational Cognition Conference (COMCO), 2021, Osnabrück, Germany. *Under-resourced or overloaded? Rethinking working memory deficits in developmental language disorder*.

- Lancaster Conference on Infant and Early Child Development (LCICD), 2021. *Under-resourced or overloaded? Rethinking working memory deficits in developmental language disorder.*
- ESRC International Centre for Language and Communicative Development (LuCiD) Conference, 2021. *Under-resourced or overloaded? Rethinking working memory deficits in developmental language disorder.*
- Boys Town National Research Hospital, Nebraska, 2021. *Under-resourced or overloaded? Rethinking working memory deficits in developmental language disorder.*
- ESRC International Centre for Language and Communicative Development (LuCiD), 2021. *Using computational modelling to understand developmental language disorder (DLD).*
- ESRC International Centre for Language and Communicative Development (LuCiD), 2020. *How can neural networks improve our understanding of developmental language disorder?*
- Child Language Symposium 2019, Sheffield, UK. *Density and distinctiveness in early word learning: Evidence from neural network simulations.*

## POSTERS

- Max Planck Institute for Psycholinguistics Many Paths to Language (MPaL) Conference, 2023. *A maturational frequency discrimination deficit may help explain developmental language disorder.*
- International Congress on Infant Studies, 2022, Ottawa, Canada. *Under-resourced or overloaded? Rethinking working memory deficits in developmental language disorder.*
- Biennial Meeting of the Society for Research in Child Development (SRCD), 2021, *Under-resourced or overloaded? Rethinking working memory deficits in developmental language disorder.*
- Child Language Symposium 2019, Sheffield, UK. *Do children really acquire dense neighbourhoods?*
- Child Language Symposium 2018, Reading, UK. *Auditory lexical decisions in developmental language disorder: A meta-analysis of behavioral studies.*

## FUNDING & AWARDS

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| 2024 | PI. The Royal Society, Research Grant. <i>Enhancing developmental speech perception modelling through head and torso simulation.</i> £30,896.57.   |
| 2023 | PI. UK Research and Innovation Talent and Research Stabilisation Fund. <i>To support the purchase of high-spec computing resources to model the neurodivergent brain and infant and child behaviour.</i> £7,160.   |
| 2022 | Co-investigator (with Dr. Kami Koldewyn, Reader, Bangor University, PI). Bangor University Impact and Innovation Award (BUII). <i>Towards a comprehensive Bangor University (BU) service for neurocognitive developmental disorders: Developing a screener for social-behavioural difficulties as a route to autism spectrum disorder (ASD) assessment.</i> £46,582. |
| 2021 | Faculty of Science and Technology Dean's Award, Early Career Researcher of the Year, nominated by the Department of Psychology, Lancaster University   |
| 2019 | Faculty of Arts and Social Sciences Research Scholarship, Lancaster University. £7500 stipend plus £4500 per annum fee waiver.   |

- 2019 Faculty of Arts and Social Sciences Conference Presentation Grant 2018–19, Lancaster University. £500.
- 2018 Faculty of Arts and Social Sciences Conference Presentation Grant 2017–18, Lancaster University. £500.

## TEACHING

### 2022 – 2023 BANGOR UNIVERSITY, UK

Biological bases of neurodevelopmental disorders  
MSc Psychology

Methods in cognition and brain research (computational modelling)  
MSc Psychology

Human language and its disorders  
BSc Hons Psychology

### 2021 – 2022 LANCASTER UNIVERSITY, UK

Introduction to developmental psychology  
BSc Hons Psychology

Computational modelling  
MSc Developmental psychology

Language impairments  
BSc Hons Linguistics

Language in atypical populations  
BSc Hons Linguistics

## WORKSHOPS LED

- 2023 Demystifying Bayesian statistics 2.0, Bangor University
- 2022 Demystifying Bayesian statistics, Manchester University
- 2021 An introduction to Bayesian data analysis in R, Lancaster University

## MENTORING & ADVISEMENT

Pastoral support for 25 second-year undergraduate students annually. Dissertation supervision for six undergraduate students and one postgraduate (MSci) student to date. PhD Committee Chair for two PhD students to date. Supervisor to one PhD candidate.

## SERVICE AT BANGOR UNIVERSITY

- 2023 – Organising committee member, *North Wales Speech and Language Exchange*  
Co-director of Research at Tir na n-Og Daycare and Child Research Centre
- 2022 – Academic Lead for Research Excellence, and UKRN Local Network Lead

## PROFESSIONAL SERVICE

- 2022 – Statistical Consultant at the *British Journal of Developmental Psychology*  
Editorial Board member at *Language Development Research*

Ad-hoc reviewer at: *Scientific Reports*; *Royal Society Open Science*; *Cognitive Science*; *Applied Psycholinguistics*; *First Language*; *Language Learning*; and for *ESRC* and *MRC* research grants.

2022 Organising committee member, *Lancaster conference on infant and early child development 2022*

## **SELECTED OUTREACH & PUBLICITY**

Interview with TES, the Times Educational Supplement. May 2022. Featured in the article *How to boost low levels of language and attention in EYFS* (early years foundation stage) by Megan Dixon.

Long-form ‘ask the experts’ article for Bulletin, the Royal College of Speech and Language Therapists magazine. Spring 2021. *Learning the meanings of words: The state of the art* (<https://osf.io/r2pc5>).

Public talk entitled *Advances in DLD research* given to parents, teachers, and practitioners at Lancaster University on Developmental Language Disorder (DLD) awareness day, October 2020.

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Updated 20<sup>th</sup> February 2024