

Dr Joseph Butler

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Employment

- 2013 – present Postdoctoral Research Fellow, Laboratório de Fonética & Lisbon Baby Lab, CLUL, Faculdade de Letras da Universidade de Lisboa (Project Speech segmentation and later language development in European Portuguese learning infants)
- 2011 – 2013 Postdoctoral Research Fellow, Laboratório de Fonética & Lisbon Baby Lab, CLUL, Faculdade de Letras da Universidade de Lisboa (Project Development of Prosodic Structure and Intonation)
- 2009 – 2010 Postdoctoral Research Fellow, School of Psychology, University of Plymouth.

Education

- 2006 - 2010 PhD in Psychology, University of Plymouth. Supervised by Dr. Caroline Floccia – VIVA passed December 2009, minor corrections accepted May 2010. Funded by a grant from the EPSRC.
- 2006 - 2008 Postgraduate Diploma in Psychological Research Methods, University of Plymouth.
- 2003 - 2006 BSc (Hons) 2:1, Psychology, University of Plymouth.

Employment History

- 1998 - 2003 Inland Revenue, Bristol.

Research Interest and Experience

My research interests to date have focused on the impact of regional and foreign accents on speech perception. My PhD thesis is a developmental project looking at firstly how accents produce a processing cost in perception in adults, and whether our perceptual systems can adapt. Secondly, I looked at what young infants are learning about their own familiar accent, and about unfamiliar regional and foreign accents. I have designed and run various perception experiments with adults using experiment design software (eprime), and I have also designed and run habituation and segmentation experiments with infants using modified versions of the headturn preference procedure. I have also obtained experience in recruiting speakers and recording audio stimuli to use in both infant and adult experiments.

I am currently working as a Postdoctoral Research project at the University of Lisbon, funded by an individual grant from the FCT, investigating how European Portuguese learning infants

develop the ability to segment spontaneous speech, and how this impacts how later language development. Previously I worked as a Research Fellow on a project investigating early infants' perception of intonation and stress in speech at the same institution. To date, and in addition to my previous experience, I have been involved in designing and carrying out habituation/dishabituation preferential listening experiments, and the analysis of data collected using an SMI eye tracker.

Before my work at the University of Lisbon, I was employed as a Research Fellow at the University of Plymouth, working on a project investigating the impact of accents on phonological representations in mono and bi-dialectal adults and infants. Specifically, this involves using accents defined by rhoticity, and whether exposure to both rhotic and non-rhotic accents leads to the development of two representations, one for each accent, or whether a single representation is developed, and accent related variations are encoded into this representation. In addition to utilising the skills developed during my PHD, I have also designed, and am currently running, preferential looking experiments, which involve recording and coding video of children's eye movements, to look for subtle differences in responses to different accented speech.

Teaching and Related Experience

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| 2015 | Guest editor of a Special Issue of the journal <i>Phonetica</i> . |
| 2015 | Guest editor of a Special Issue of the journal <i>Language and Speech</i> . |
| 2013 | Member of the organising committee for the Phonetics and Phonology in Iberia conference, held in Lisbon, June 2013. |
| 2009-2010 | Providing supervision and support to PhD students, including training in preferential looking and headturn preference procedures, providing advice in designing and implementing experiments, and providing guidance for running experiments in the Babylab. |
| 2009-2010 | Supervised placements students employed in the Babylab, providing training and guidance in using the various data collection methods available in the Babylab, and providing guidance and support in data collection and analysis. |
| 2009-2010 | Case study groups – leading small group discussions into how to approach and solve problems from a psychological perspective, and marking essays. |
| 2008-2009 | Helped supervise and support a postgraduate research project investigating the effects of foreign accents on 10 month old infants' segmentation abilities. |
| 2007-2008 | Case study groups – leading small group discussions into how to approach and solve problems from a psychological perspective, and marking essays. |
| 2006-2007 | Helped supervise and support an undergraduate research project investigating whether perceptual adaptation to a foreign accent is possible within a laboratory setting. |
| 2006-2007 | Carried out data collection with toddlers (30 months) to investigate what cues children use to learn new words. |

Given advice and support to undergraduate project students as to how to carry out research with toddlers, and also advised on methods for recording audio stimuli.

Involved in setting up, and recruiting families to, the babylab at the University of Plymouth, including taking part in various recruitment activities involving promoting the babylab to potential participants, explaining aims and objectives of research in the babylab, answering questions and allaying any concerns about taking part.

Edited Volumes

- Butler, J., Cruz, M. & Vigário, M. (eds.) (2015). Experimental approaches to the production and perception of prosody. *Language and Speech*.
- Vigário, M., Butler, J. & Cruz, M. (eds.) (2015). Phonologically constrained variability in production and perception. *Phonetica*.

Publications

- Butler, J. & Frota, S. (submitted). Emerging word segmentation abilities in European Portuguese learning infants: New evidence for the rhythmic unit and edge factor
- Frota, S. & J. Butler. (in press). Early development of intonation: perception and production. In *Prosodic Development in First Language Acquisition*. P. Prieto & N. Esteve-Gibert (eds.), TiLAR series, Philadelphia/USA: John Benjamins. Accepted in November 2016; to be published in 2017.
- Frota, S., Butler, J., Correia, S., Severino, S., Vicente, S. & Vigário, M. (2016). Infant communicative development assessed with the European Portuguese MacArthur-Bates Communicative Development Inventories Short Forms. *First Language*. DOI: 10.1177/0142723716648867.
- Butler, J., Vigário, M. & Frota, S. (2016). Infants' perception of broad and narrow focus. *Language Learning and Development*, 12(1), 1-13. doi: 10.1080/15475441.2015.1020376
- Correia, S., Butler, J., Vigário, M. & Frota, S. (2015). A stress "deafness" effect in European Portuguese. *Language and Speech*, 58, 48-67. doi: 10.1177/0023830914565193
- White, L., Floccia, C., Goslin, J. & Butler, J. (2014). Utterance-final lengthening is predictive of infants' discrimination of English accents. *Language Learning*, 64(2), 27-44. doi: 10.1111/lang.12060
- Frota, S., Butler, J. & Vigário, M. (2014). Infants' perception of intonation: Is it a statement or a question? *Infancy*, 19(2), 194-213. doi: 10.1111/inf.12037
- Floccia, C., Delle Luche, C., Durrant, S., Butler, J. & Goslin, J. (2012). Parent or community: Where do 20-month-olds exposed to two accents acquire their representation of words? *Cognition*, 124, 95-100.
- Frota, S., Butler, J., Correia, S., Severino, C. & Vigário, M. (2012). Pitch first, stress next? Prosodic effects on word learning in an intonation language. Proceedings of the 36th annual Boston University Conference on Language Development, edited by Alia K. Biller, Esther Y. Chung, and Amelia E. Kimball, 190-201. Somerville, MA: Cascadilla Press.
- Butler, J., Floccia, C., Goslin, J. & Panneton, R. (2011). Infants' discrimination of familiar and unfamiliar accents in speech. *Infancy*, 16, 392-417.
- Floccia, C., Butler, J., Girard, F. & Goslin, J. (2009). Categorisation of regional and foreign

- accents in 5 to 7-year-old British children. *International Journal of Behavioral Development*, 33(4), 336-375.
- Floccia, C., Butler, J., Goslin, J. & Ellis, L. (2009). Regional and foreign accent processing in English: Can listeners adapt? *Journal of Psycholinguistic Research*, 38(4), 379-412.
- Nazzi, T., Floccia, C., Moquet, B. & Butler, J. (2009). Bias for consonantal over vocalic information in 30-month-olds: Crosslinguistic evidence from French and English. *Journal of Experimental Child Psychology*, 102, 522-537.

Conferences

- Vigário, M., Butler, J., Severino, C. & Frota, S. (2017). The role of phonotactic frequency and phonological grammar in infant word learning: An eye-tracking study. *Paper presented given at WILD – Workshop on Infant Language Development*, Bilbao, 15-17 June 2017.
- Frota, S., Butler, J., Severino, C. & Vigário, M. (2017). Early language development in language-impaired, at-risk and typically development children measured with the European Portuguese MacArthur-Bates CDI Short Forms. Poster presented at *WILD – Workshop on Infant Language Development*, Bilbao, 15-17 June 2017.
- Butler, J., C. Severino, S. Correia, M. Vigário & S. Frota (2016) The emergence of early word segmentation abilities in typically developing infants and infants with Down syndrome. *Revista de Neurologia* 62 (C01): C267. <https://www.neurologia.com/revista/62/C01>
- Frota, S., Butler, J., Lu, S. & Vigário, M. (2016). Infants' perception of native and non-native pitch contrasts. Proceedings of the *Speech Prosody 2016*. Boston: Boston University.
- Butler, J., Severino, C., Vigário, M. & Frota, S. (2016). When prosody matters: Emerging word segmentation abilities in European Portuguese learning infants. *Paper presented at TIE2016 – the 7th conference on Tone and Intonation in Europe*. University of Kent, Canterbury, UK, September 1-3, 2016.
- Frota, S., Butler, J., Lu, S. & Vigário, M. (2016). Infants perception of native and non-native pitch contrasts: tune, pitch accent or tone? *Paper presented at the first Lancaster Conference on Infant and Child Development*. Lancaster University, Lancaster, UK, 25-27th August, 2016.
- Butler, J., Severino, C., Vigário, M. & Frota, S. (2016). When prosody matters! Developing word segmentation abilities in European Portuguese learning infants. *Paper presented at the first Lancaster Conference on Infant and Child Development*. Lancaster University, Lancaster, UK, 25-27th August, 2016.
- Frota, S., Butler, J., Lu, S. & Vigário, M. (2016). Infants's perception of statement and question prosody: native vs. non-native language input. *Poster presented at the ICIS – International Conference on Infant Studies*. New Orleans: Louisiana, May 26-28, 2016.
- Butler, J., Severino, C., Vigário, M. & Frota, S. (2016). When prosody matters! Emerging word segmentation abilities in European Portuguese learning infants. *Paper presented at the EARLI-SIG 5 Conference, Learning and Development in Early Childhood*, Porto, Portugal, June 29th-July 1st 2016.
- Frota, S., Butler, J., Correia, S., Severino, C., Vicente, S. & Vigário, M. (2016). Measuring early development of language skills: The European Portuguese MacArthur-Bates Communicative Development Inventories Short-forms. *Poster presented at the EARLI-SIG 5 Conference, Learning and Development in Early Childhood*, Porto, Portugal, June 29th-July 1st 2016.
- Cortês, S., Butler, J., Severino, C., Uysal, E., Vigário, M. & Frota, S. (2016). 'Old' paradigms, new measures: Infants' language processing assessed with eye-tracking. *Paper presented at SWAET 2016: The Scandinavian Workshop on Applied Eye Tracking*, Turku, Finland, 19th-21st June 2016.
- Butler, J., Severino, C., Correia, S., Vigário, M. & Frota, S. (2016). The emergence of early word

- segmentation abilities in typically developing infants and infants with Down Syndrome. *Poster presented at the 1st Iberoamerican Congress of Neuropsychology, Bilbao, Spain, 1st – 4th June 2016.*
- Butler, J., Severino, C., Correia, S., Vigário, M. & Frota, S. (2015). The emergence of early word segmentation abilities in typically developing infants and infants with Down Syndrome. *Paper presented at the 1st Meeting of the PhD Students from the Mind-Brain College of the University of Lisbon, Lisbon, Portugal, 2nd December 2015.*
- Butler, J., Cortês, S., Correia, S., Uysal, E., Vigário, M. & Frota, S. (2015). European Portuguese-learning infants' early perception of lexical stress. *Poster presented at the Child Language Symposium, Warwick, July 2015.*
- Frota, S., Butler, J., Correia, S., Severino, C., Vicente, S. & Vigário, M. (2015). Infant communicative development assessed with the European Portuguese MacArthur-Bates Communicative Development Inventories Short-Forms. *Presented at the Workshop on Early Language (WELL), Lisbon, July 2015.*
- Butler, J., Cortês, S., Correia, S., Uysal, E., Vigário, M. & Frota, S. (2015). Early perception of lexical stress by European Portuguese-learning infants. *Presented at the Workshop on Early Language (WELL), Lisbon, July 2015.*
- Vigário, M., Butler, J., Correia, S., Cruz, M., Severino, C. & Frota, S. (2015). Assessing early prosodic development in European Portuguese: the ProsoQuest parental report. *Presented at the Workshop on Early Language (WELL), Lisbon, July 2015.*
- Butler, J., Cortês, S., Correia, S., Uysal, E., Vigário, M. & Frota, S. (2015). Early perception of lexical stress by European Portuguese-learning infants. *Presented at the Phonetics and Phonology in Europe conference, Cambridge, June 2015.*
- Correia, S., Frota, S., Butler, J. & Vigário, M. (2013). Word stress perception in European Portuguese. *Poster presented at the 14th Annual Conference of the International Speech Communication Association (Interspeech), Lyon, August 2013.*
- Frota, S., Severino, C., Butler, J., Bandeira, C. & Vigário, M. (2013). The eyes follow the sound: Measuring speech perception with eye-tracking. *Poster presented at the 17th European Conference on Eye Movements, Lund, August 2013.*
- Frota, S., Severino, C., Butler, J., Correia, S. & Vigário, M. (2013). Adaptação dos questionários MacArthur-Bates (CDI) ao Português Europeu: formas reduzidas para o Nível I (8-18 meses) e Nível II (16-30 meses). *Presented at the XXIX Encontro Nacional Associação Portuguesa de Linguística, 23-25th October 2013.*
- Correia, S., Frota, S., Butler, J. & Vigário, M. (2013). Words stress perception in European Portuguese. *Poster presented at the 14th Annual Conference of the International Speech Communication Association (Interspeech), Lyon, August 2013.*
- Frota, S., Severino, C., Butler, J., Bandeira, C. & Vigário, M. (2013). The eyes follow the sound: Measuring speech perception with eye-tracking. *Poster presented at the 17th European Conference on Eye Movements, Lund, August 2013.*
- Butler, J., Vigário, M. & Frota, S. (2013). Infants' perception of intonation and its use in early word learning. *Presented at the 2nd Workshop on the Development of Prosody and Intonation, Lisbon, June 2013.*
- Vigário, M., Correia, S. & Butler, J. (2013). Early prosodic development in European Portuguese: Proso-quest, a parental report of infants prosodic skills. *Presented at the 2nd Workshop on the Development of Prosody and Intonation, Lisbon, June 2013.*
- Frota, S., Severino, C., Butler, J. & Matos, N. (2013). Development of CDI short forms for European Portuguese. *Presented at the 2nd Workshop on the Development of Prosody and Intonation, Lisbon, June 2013.*
- Correia, S., Frota, S., Butler, J. & Vigário, M. (2013). A stress “deafness” effect in European

- Portuguese. *Presented at the Phonetics and Phonology in Iberia conference, Lisbon, June 2013.*
- Frota, S., Butler, J., Correia, S., Severino, C. & Vigário, M. (2013). Infant' perception of intonation categories. *Poster presented at the Workshop on Infant Language Development, Donostian-San Sebastian, Spain, June 2012.*
- Butler, J., Frota, S. & Vigário, M. (2012). Early discrimination of declarative and question intonation. *Poster presented at the 3rd Early Language Acquisition (ELA) conference, Lyon, 5th-7th December 2012.*
- Butler, J., Frota, S. & Vigário, M. (2012). Infants' perception of intonation: Is it a statement or a question? *Paper presented at the The Fifth European Conference on Tone and Intonation (TIE5), Oxford, September 2012.*
- Butler, J., Frota, S. & Vigário, M. (2012). Infants perception of intonation: Is it a statement or a question? *Poster presented at the Workshop on the Acquisition of Syntax of Romance Languages - Romance Turn V, Lisbon, July 2012.*
- Frota, S., Butler, J., Correia, S., Severino, C. & Vigário, M. (2011). Pitch first, stress next: Prosodic effects on word learning in an intonation language. *Presented at the 36th Annual Boston University Conference on Language Development, 4th-6th November, 2011.*
- Frota, S., Severino, C., Butler, J., Correia, S. & Vigário, M. (2011). Interpretation of stress and pitch contrasts in early word learning in European Portuguese. *Presented at the International Child Phonology Conference, York.*
- Frota, S., Butler, J., Correia, S. & Severino, C. (2011). Stress and pitch contrasts in early word learning in European Portuguese. *Presented at the XXVII Encontro Nacional da Associação Portuguesa de Linguística, 26th-28th October 2011.*
- Butler, J., Goslin, J., Farag, R., Durrant, S. & Floccia, C. (2010). Effect of unfamiliar dialect and foreign accent in word recognition: Data from an immediate versus delayed cross-modal matching task. *Presented at the Psycholinguistic Approaches to Speech Recognition in Adverse Listening Conditions workshop, Bristol.*
- Butler, J. & Floccia, C. (2009). Five and Seven Month Old Infants' Perceptions of Regional and Foreign Accents in Speech. *Presented at the Society for Research in Child Development Biennial Meeting, Denver, United States.*
- Butler, J., Floccia, C. & Metz, J. (2008) How much does a 5 month old Plymothian infant know about the South West accent? *Presented at the XI International Congress For The Study Of Child Language, Edinburgh.*
- Butler, J. & Floccia, C. (2008) 5 and 7 month old Plymouthian infants' perceptual abilities in discrimination of accent in speech. *Presented at the New Directions in Word Learning workshop, University of York.*
- Butler, J., Metz, J. & Floccia, C. (2008) The effects of accent related variation on speech perception in 5 and 7 months olds. *Presented at the ISIS XVIth International Conference on Infant Studies, Vancouver, Canada.*
- Butler, J. & Floccia, C. (2007). The Effects of Accent Related Variation on Speech Perception in 5 Month Olds. *Presented at the British Psychological Society, Developmental Section conference, Plymouth.*
- Floccia, C., Butler, J. & Metz, J. (2007). Regional and foreign accent categorisation in British children from 5 to 7 Years. *Presented at the Child Language Seminar, University of Reading.*

References available on request