

Gonzalo García-Castro

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Education

2017–2018: *MSc in Neuroscience*. Universitat de Barcelona (Barcelona, Spain).

2013–2017: *BSc in Psychology*. Universidad de Oviedo (Oviedo, Spain)

Publications

Santolin, C., **Garcia-Castro, G.**, Zettersten, M., Sebastian-Galles, N., & Saffran, J. R. (2020). Experience with research paradigms relates to infants' direction of preference. *Infancy*.

Sampedro-Piquero, P., Álvarez-Suárez, P., Moreno-Fernández, R. D., **García-Castro, G.**, Cuesta, M., & Begega, A. (2018). Environmental enrichment results in both brain connectivity efficiency and selective improvement in different behavioral tasks. *Neuroscience*, 388, 374-383.

Posters

Garcia-Castro, G., Siow, S., Sebastian-Galles, N., and Plunkett, K. (March, 2022). The role of cognateness during word recognition in a non-native language. Talk given at the *Psycholinguistics Coffee* (University of Edinburgh, held online).

Garcia-Castro, G., Siow, S., Lepadatu, I., Guillen, N., Avila-Varela, D., Sebastian-Galles, N. y Plunkett, K. (January 2022). Parallel activation and the developing bilingual lexicon: a longitudinal study on word recognition. Talk given at the LACRE research group (Cardiff University, held online).

Siow, S., Gillen, N., Lepadatu, I., **Garcia-Castro, G.**, Avila-Varela, D., Sebastian-Galles, N., and Plunkett, K. (November, 2021). The effect of cognates on bilingual infant vocabulary trajectories: a study using bilingual CDIs of English and one additional language. Oral communication presented at the *Boston University Conference on Language Development* (Boston, United States, held online)

Siow, S., **Garcia-Castro, G.**, Sebastian-Galles, N., and Plunkett, K. (September, 2021). An alternative approach to defining cross-linguistic phonological similarity using a mode of monolingual speech recognition. Oral communication presented at *Architectures and Mechanisms for Language Processing* (Paris, France, held online).

- Garcia-Castro, G.**, Siow, S., Sebastian-Galles, N. and Plunkett, K. (August, 2021). The impact of cognateness on bilingual lexical access: a longitudinal priming study. Poster presented at the *Lancaster Conference of Infancy and Child Development* (Lancaster, United Kingdom, held online).
- Siow, S., Guillen, N., Lepadatu, I., Avila-Varela, D., **García-Castro, G.**, Sebastian-Galles, N. and Plunkett, K. (August, 2021). A study of linguistic distance and infant vocabulary trajectories using bilingual CDIs of English and one additional language. Poster presented at the *Lancaster Conference of Infancy and Child Development* (Lancaster, United Kingdom, held online).
- Garcia-Castro, G.**, Siow, S., Sebastian-Galles, N. and Plunkett, K. (June, 2021). The role of cognateness in nonnative spoken word recognition. Poster presented at the *XI International Symposium of Psycholinguistics* (Madrid, Spain, held online).
- Siow, S., **Garcia-Castro, G.**, Sebastian-Galles, N., and Plunkett, K. (August, 2020). Phoneme-weighted Levenshtein Distance: A Measure of Cross-linguistic Phonological Similarity. Poster presented at the *Lancaster Conference of Infancy and Child Development* (Lancaster, United Kingdom, held online).
- Garcia-Castro, G.**, Siow, S., Sebastian-Galles, N. and Plunkett, K. (July, 2020). The role of lexical similarity on bilingual parallel activation: A priming study in toddlers. Poster presented at the *International Congress on Infant Studies* (Edinburgh, United Kingdom, held online).
- Garcia-Castro, G.**, Avila-Varela, D., and Sebastian-Galles, N. (July, 2020). Does phonological overlap across translation equivalents predict earlier age of acquisition?. Poster presented at the *International Congress on Infant Studies* (Edinburgh, United Kingdom, held online).
- Siow, S., **Garcia-Castro, G.**, Sebastian-Galles, N., and Plunkett, K. (August, 2019). The impact of phonology (cognateness) on the bilingual lexicon: Parallel cross-language phonological priming. Poster presented at the *Lancaster Conference on Infant and Early Child Development* (Lancaster, United Kingdom).
- Garcia-Castro, G.**, Marimon, M., Santolin, C., and Sebastian-Galles, N. (June, 2019). Encoding new word forms when contrastive phonemes are interchanged: A preliminary study on 8-month-old infants. Poster presented at the *Workshop in Infant Language Development* (Potsdam, Germany). <https://doi.org/10.17605/OSF.IO/GYKUH>
- García-Castro, G.**, Álvarez-Suárez, P., García-Abad, N., Cuesta, M., and Begega, A. (June, 2017). Pro-cognitive effects of environmental enrichment on attention and spatial memory: hippocampal metabolic activity in a Wistar rat model. Poster presented at the *4th International Congress on Health and Aging Research* (Murcia, Spain).
- García-Abad, N., Santirso, M., **García-Castro, G.**, and Álvarez-Suárez, P. (June, 2017). Efectos del omega-3 en las redes implicadas en la memoria de trabajo espacial en ratas Wistar. Poster presented at the *3rd National Congress of Psychology*

Software development

- Garcia-Castro, G.** (2022). multilex: A R package for multilingual lexical assessment using online surveys. <https://github.com/gongcastro/multilex>

Reviewing

- Behavioral Research Methods (since 2021)

Skills

- **Software:**
 - R: Tidyverse, development of R packages, **targets**
 - Python and Julia: data processing, analysis and visualisation
 - Stan: Bayesian statistical modelling
 - Git/GitHub, MATLAB, SQL, Docker, JASP, SPSS, bash/Linux
- **Reproducible reports:** Rmarkdown, Shiny, blogdown, **papaja**, GitHub Pages
- **Data collection:** PsychoPy, eye-tracking, formR, PsychToolbox, WISC (Head-turn preference)
- **Data analysis:**
 - Bayesian inference (**brms**, **cmdstanr**)
 - Multilevel/mixed/hierarchical models (**brms**, **lme4**)
 - Generalised linear models (binomial regression, ordinal/multinomial regression, Poisson, Gamma, etc.)
 - Item response theory (**brms**)
- **Acoustic analysis and processing:** Praat, Audacity, Phonological Corpus Tools