



## OPEN ACCESS

APPROVED BY  
Frontiers Editorial Office,  
Frontiers Media SA, Switzerland

\*CORRESPONDENCE  
Mark Antoniou  
✉ m.antoniou@westernsydney.edu.au

†These authors have contributed equally to this work

RECEIVED 06 June 2023  
ACCEPTED 07 June 2023  
PUBLISHED 21 June 2023

## CITATION

Antoniou M, Pliatsikas C and Schroeder SR (2023) Corrigendum: Editorial: New approaches to how bilingualism shapes cognition and the brain across the lifespan: beyond the false dichotomy of advantage versus no advantage. *Front. Psychol.* 14:1235628. doi: 10.3389/fpsyg.2023.1235628

## COPYRIGHT

© 2023 Antoniou, Pliatsikas and Schroeder. This is an open-access article distributed under the terms of the [Creative Commons Attribution License \(CC BY\)](#). The use, distribution or reproduction in other forums is permitted, provided the original author(s) and the copyright owner(s) are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.

# Corrigendum: Editorial: New approaches to how bilingualism shapes cognition and the brain across the lifespan: beyond the false dichotomy of advantage versus no advantage

Mark Antoniou<sup>1\*†</sup>, Christos Pliatsikas<sup>2,3†</sup> and Scott R. Schroeder<sup>4†</sup>

<sup>1</sup>The MARCS Institute for Brain, Behaviour and Development, Western Sydney University, Penrith, NSW, Australia, <sup>2</sup>School of Psychology and Clinical Language Sciences, University of Reading, Reading, United Kingdom, <sup>3</sup>Centro de Investigación Nebrija en Cognición, Universidad Nebrija, Madrid, Spain, <sup>4</sup>Department of Speech-Language-Hearing Sciences, Hofstra University, Hempstead, NY, United States

## KEYWORDS

bilingualism, cognition, brain, advantage, new approaches

## A corrigendum on

Editorial: New approaches to how bilingualism shapes cognition and the brain across the lifespan: beyond the false dichotomy of advantage versus no advantage

by Antoniou, M., Pliatsikas, C., and Schroeder, S. R. (2023). *Front. Psychol.* 14:1149062. doi: 10.3389/fpsyg.2023.1149062

In the published article, there was an error. The summary of one of the papers included in the Research Topic to which this Editorial relates erroneously stated that two groups were tested in different contexts.

A correction has been made to Section **New measures**, paragraph 3. The corrected section is shown below.

“[van den Berg et al.](#) also investigate how individual bilingual experiences affect executive control in different contexts of language use. They tested bilingual university students, for whom they calculated a measure of language entropy for different contexts (university and non-university) by using a language background questionnaire. These language entropy measures were used as continuous predictors of the participants’ performance in a color-shape switching task. Apart from collecting Reaction Times, pupil size was also measured as an objective index of set shifting abilities that are required for this task. The authors report that, while typical switching costs in RTs were not affected by entropy in either context, entropy did predict a switching cost in a non-university context when pupil dilation was studied. [van den Berg et al.](#) conclude that social diversity in bilinguals’ experiences may indeed be linked to their executive control abilities, but this may depend on the exact social context and may be detectable in measures that are more sensitive than RT, such as pupil size.”

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

## Publisher's note

All claims expressed in this article are solely those of the authors and do not necessarily represent those of their affiliated

organizations, or those of the publisher, the editors and the reviewers. Any product that may be evaluated in this article, or claim that may be made by its manufacturer, is not guaranteed or endorsed by the publisher.