1. Article title

Interaural time and level differences contribute differently to source segregation and spatial selection

1. Authors

Benjamin N. Richardson, Neuroscience Institute, Carnegie Mellon University

Sahil Luthra, Department of Psychology, Stony Brook University

Jana M. Kainerstorfer, Department of Biomedical Engineering, Carnegie Mellon University

Barbara G. Shinn-Cunningham, Neuroscience Institute, Carnegie Mellon University

1. Corresponding author

Christopher Brown, University of South Florida Department of Communication Sciences and Disorders, 3711 USF Citrus Drive, Tampa, FL 33620. +1 (813)974- 2006. [cb43@usf.edu](mailto:cb43@usf.edu)

1. Acknowledgments section

The authors would like to thank Sydney Sepkovic, Cece Restauri, Kelsey Overbay, Ryley Watt, Katherine Bart, and Maanasa Guru Adimurthy for their assistance in data collection. The authors would also like to thank Eli Bulger and Victoria Figarola for their insights on fNIRS data analysis and writing preparation.

1. Declaration of conflicting interest

The authors declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

1. Funding statement

This work was supported by the National Institutes of Health (NIH) under grants F31-DC022481, R21-DC018408 (to C.A.B.), and R01-DC015988 (to B.G.S.C.).

1. Ethical approval and informed consent statements

This study was reviewed and approved by The University of Pittsburgh Institutional Review Board. The patients/participants provided their written informed consent to participate prior to their participation in this study.

1. Data availability statement

The raw data supporting the conclusions of this article will be made available by the authors, without undue reservation.