

Luis Eudave

PROFESSOR · VICE-DEAN FOR RESEARCH AND GRADUATE STUDIES

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ABOUT ME

Professor and Vice-Dean for Research and Graduate Studies at the School of Education and Psychology, University of Navarra. My teaching centers on the intersection of Neuroscience, Methodology, and Virtual Reality. My current research seeks to describe and understand the visual experience of dreaming, as well as to find new ways to assess cognition, both using Virtual Reality. I'm interested in open science that makes my research more transparent, accessible, and rigorous.

EDUCATION

PhD in Neuroscience	<i>Pamplona, Spain</i>
UNIVERSITY OF NAVARRA	2014 – 2018
MSc in Cognitive Neuroscience	<i>Pamplona, Spain</i>
UNIVERSITY OF NAVARRA	2013 – 2014
MD (Medicine)	<i>Mexico City, Mexico</i>
UNIVERSIDAD PANAMERICANA	2007 – 2013

POSTDOCTORAL TRAINING

Research stay	<i>Lisbon, Portugal</i>
INSTITUTO SUPERIOR TÉCNICO	2023
• Project: multimodal assessment of attention using Virtual Reality, eye-tracking, and EEG	
Research stay	<i>Erlangen, Germany</i>
FRIEDRICH-ALEXANDER UNIVERSITÄT	2021 – 2022
• Project: assessment of spatial navigation using Virtual Reality	

TEACHING

Attention and Perception	<i>Undergrad, 1st · Psychology</i>
SCHOOL OF EDUCATION AND PSYCHOLOGY, UNAV	Current course
Virtual Reality in Evaluation and Intervention	<i>Undergrad, 4th · Psychology</i>
SCHOOL OF EDUCATION AND PSYCHOLOGY, UNAV	Current course
Fundamentals of Data Analysis in Social Sciences	<i>Postgrad</i>
SCHOOL OF EDUCATION AND PSYCHOLOGY, UNAV	Current course

TECHNICAL SKILLS

Programming R, C#

Software RStudio, Matlab, Git, Unity, SPM, PsychoPy, Covidence

LANGUAGES

Skill	Spanish	English	Portuguese	Italian
Reading	Native	C2	C1	B1
Writing	Native	C2	B2	B1
Listening	Native	C2	C1	B1
Speaking	Native	C2	C1	B1

PUBLICATIONS

1. Aczel, B., Szasz, B., Clelland, H. T., Kovacs, M., Holzmeister, F., et al. (2026). Investigating the analytical robustness of the social and behavioural sciences. *Nature*, 652(8108), 135–142. <https://doi.org/10.1038/s41586-025-09844-9>
2. Gosling, C. J., Garcia-Argibay, M., De Prisco, M., Arrondo, G., Ayrolles, A., et al. (2025). Benefits and harms of ADHD interventions: umbrella review and platform for shared decision making. *BMJ*, 391. <https://doi.org/10.1136/bmj-2025-085875>
3. Paiva, U., Cortese, S., Flor, M., Moncada-Parra, A., Lecumberri, A., Eudave, L., et al. (2025). Prevalence of mental disorder symptoms among university students: An umbrella review. *Neuroscience & Biobehavioral Reviews*, 175, 106244. <https://doi.org/10.1016/j.neubiorev.2025.106244>
4. Eudave, L., & Vourvopoulos, A. (2025). Multimodal mapping of spatial attention for unilateral spatial neglect in VR: A proof of concept study using eye-tracking and mobile EEG. *Virtual Reality*, 29(1), 24. <https://doi.org/10.1007/s10055-025-01103-6>
5. Eudave, L., & Martínez, M. (2025). To VR or not to VR: Assessing cybersickness in navigational tasks at different levels of immersion. *Frontiers in Virtual Reality*, 6, 1518735. <https://doi.org/10.3389/frvir.2025.1518735>
6. Huneke, N. T. M., Amin, J., Baldwin, D. S., Bellato, A., Brandt, V., Chamberlain, S. R., et al. (2024). Placebo effects in randomized trials of pharmacological and neurostimulation interventions for mental disorders: An umbrella review. *Molecular Psychiatry*, 29(12), 3915–3925. <https://doi.org/10.1038/s41380-024-02638-x>
7. Solmi, M., Cortese, S., Vita, G., De Prisco, M., Radua, J., Dragioti, E., et al. (2023). An umbrella review of candidate predictors of response, remission, recovery, and relapse across mental disorders. *Molecular Psychiatry*, 28(9), 3671–3687. <https://doi.org/10.1038/s41380-023-02298-3>
8. Eudave, L., & Pastor, M. A. (2023). Cognition and driving in older adults: A complex relationship. *Aging (Albany NY)*, 15(4), 887–888. <https://doi.org/10.18632/aging.204551>
9. Buchanan, E. M., Lewis, S. C., Paris, B., Forscher, P. S., Pavlacic, J. M., Beshears, J. E., et al. (2023). The Psychological Science Accelerator's COVID-19 rapid-response dataset. *Scientific Data*, 10(1), 87. <https://doi.org/10.1038/s41597-022-01811-7>
10. Cortese, S., Solmi, M., Michelini, G., Bellato, A., Blanner, C., Canozzi, A., et al. (2023). Candidate diagnostic biomarkers for neurodevelopmental disorders in children and adolescents: A systematic review. *World Psychiatry*, 22(1), 129–149. <https://doi.org/10.1002/wps.21037>
11. Eudave, L., Martínez, M., Valencia, M., & Roth, D. (2023). Evaluation of an immersive virtual reality wayfinding task — Stage 1 Registered Report. *Peer Community in Registered Reports*, 1. <https://rr.peercommunityin.org/articles/rec?id=439>
12. Eudave, L., Martínez, M., Luis, E. O., & Pastor, M. A. (2022). Egocentric distance perception in older adults: Results from an fMRI and driving simulator study. *Frontiers in Aging Neuroscience*, 14, 936661. <https://doi.org/10.3389/fnagi.2022.936661>
13. Aznárez-Sanado, M., Eudave, L., Martínez, M., Luis, E. O., Villagra, F., et al. (2022). Brain activity and functional connectivity patterns associated with fast and slow motor sequence learning in late middle adulthood. *Frontiers in Aging Neuroscience*, 13, 778201. <https://doi.org/10.3389/fnagi.2021.778201>
14. Arrondo, G., Solmi, M., Dragioti, E., Eudave, L., Ruiz-Goikoetxea, M., et al. (2022). Associations between mental and physical conditions in children and adolescents: An umbrella review. *Neuroscience & Biobehavioral Reviews*, 137, 104662. <https://doi.org/10.1016/j.neubiorev.2022.104662>
15. Bago, B., Kovacs, M., Protzko, J., Nagy, T., Kekecs, Z., Palfi, B., Adamkovic, M., et al. (2022). Situational factors shape moral judgements in the trolley dilemma in Eastern, Southern and Western countries in a culturally diverse sample. *Nature Human Behaviour*, 6(6), 880–895. <https://doi.org/10.1038/s41562-022-01319-5>
16. Legate, N., Nguyen, T., Weinstein, N., Moller, A., Legault, L., Vally, Z., et al. (2022). A global experiment on motivating social distancing during the COVID-19 pandemic. *Proceedings of the National Academy of Sciences*, 119(22). <https://doi.org/10.1073/pnas.2111091119>
17. Dorison, C. A., Lerner, J. S., Heller, B. H., Rothman, A. J., Kawachi, I., Wang, K., et al. (2022). In COVID-19 health messaging, loss framing increases anxiety with little-to-no concomitant benefits: Experimental evidence from 84 countries. *Affective Science*, 3(3), 577–602. <https://doi.org/10.1007/s42761-022-00128-3>

18. Wang, K., Goldenberg, A., Dorison, C. A., Miller, J. K., Uusberg, A., Lerner, J. S., et al. (2021). A multi-country test of brief reappraisal interventions on emotions during the COVID-19 pandemic. *Nature Human Behaviour*, 5(8), 1089–1110. <https://doi.org/10.1038/s41562-021-01173-x>
19. Eudave, L., Martínez, M., Luis, E. O., & Pastor, M. A. (2018). Default-mode network dynamics are restricted during high speed discrimination in healthy aging: Associations with neurocognitive status and simulated driving behavior. *Human Brain Mapping*, 39(11), 4196–4212. <https://doi.org/10.1002/hbm.24240>
20. Eudave, L., Aznárez-Sanado, M., Luis, E. O., Martínez, M., Fernández-Seara, M. A., & Pastor, M. A. (2017). Motor sequence learning in the elderly: Differential activity patterns as a function of hand modality. *Brain Imaging and Behavior*, 11(4), 986–997. <https://doi.org/10.1007/s11682-016-9569-7>
21. Eudave, L., & Valencia, M. (2017). Physiological response while driving in an immersive virtual environment. *2017 IEEE 14th International Conference on Wearable and Implantable Body Sensor Networks (BSN)*, 145–148. <https://doi.org/10.1109/BSN.2017.7936028>
22. Luis, E., Ortiz, A., Eudave, L., Ortega-Cubero, S., Borroni, B., Van Der Zee, J., et al. (2016). Neuroimaging correlates of frontotemporal dementia associated with SQSTM1 mutations. *Journal of Alzheimer's Disease*, 53(1), 303–313. <https://doi.org/10.3233/JAD-160006>