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Curriculum Vitae, 2024

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Education and training

2020-present: **Ph.D. Experimental Psychology**. Thesis title: Selection, Maintenance, and Removal of Working Memory Contents: A Behavioral and Electrophysiological Approach. Advisors: Prof. Luis J. Fuentes Melero and Prof. Guillermo Campoy.

March-May 2024: **Research stay** at Leibniz Research Centre for Working Environment and Human Factors in Dortmund (Supervisor: Michael Nitsche)

May-July 2022: **Research stay** at the Vrije Universiteit Amsterdam (Supervisor: Christian N.L. Olivers).

2019-2020: **M.S. Behavioral and Cognitive Neuroscience**. University of Granada, Spain.

2015-2019: **B.A. Psychology**. University of Murcia, Spain.

Research

- Under review and ongoing projects:

Sandoval-Lentisco, A., **Tortajada, M.**, López-Nicolás, R., López-López, J. A., Wagenmakers, E. J., Sánchez-Meca, J., & Hardwicke, T. E. (Under review). Preregistration of psychology meta-analyses: A cross-sectional study of prevalence and practice. (Preprint: <https://osf.io/preprints/metaarxiv/627a4>)

Tortajada, M., Martínez-Pérez, V., Palmero, L. B., Fuentes, L. J., & Campoy, G. (Under review). Distinguishing between temporary and permanent removal in verbal working memory. (Preprint: [Draft_1st_revision](#))

Tortajada, M., Martínez-Pérez, V., Palmero, L. B., Roy, S., Melero, L. F., & Campoy, G. (In preparation). Studying the effects of theta exogenous entrainment considering working memory baseline and task difficulty. (Preregistration: <https://doi.org/10.17605/OSF.IO/GHQK6>)

▪ Published articles:

- Tortajada, M.**, Fahrenfort, J. J., Sandoval-Lentisco, A., Martínez-Pérez, V., Palmero, L. B., Castillo, A., Fuentes, L. J., Campoy, G., & Olivers, C. N. L. (2024). Decoding load or selection in visuospatial working memory? *Psychophysiology*, 00, e14636. <https://doi.org/10.1111/psyp.14636>
- Sandoval-Lentisco, A. López-Nicolás, R., **Tortajada, M.**, López-López, J.A., Sánchez-Meca, J. (2024). Transparency in Cognitive Training Meta-analyses: A Meta-Review. *Neuropsychology Review*, 1-18. <https://doi.org/10.1007/s11065-024-09638-2>
- Palmero, L. B., Martínez-Pérez, V., **Tortajada, M.**, Campoy, G., & Fuentes, L. J. (2024). Testing the modulation of self-related automatic and others-related controlled processing by chronotype and time-of-day. *Consciousness and Cognition*, 118, 103633. <https://doi.org/10.1016/j.concog.2023.103633>
- Palmero, L. B., **Tortajada, M.**, Martínez-Pérez, V., Sandoval-Lentisco, A., Campoy, G., & Fuentes, L. J. (2024). Circadian modulation of the time course of automatic and controlled semantic processing. *Chronobiology International*, 1-15. <https://doi.org/10.1080/07420528.2024.2312806>
- Martínez-Pérez, V., Sandoval-Lentisco, A., **Tortajada, M.**, Palmero, L. B., Campoy, G., & Fuentes, L. J. (2024). Self-prioritization effect in the attentional blink paradigm: Attention-based or familiarity-based effect? *Consciousness and Cognition*, 117, 103607. <https://doi.org/10.1016/j.concog.2023.103607>
- Martínez-Pérez, V., Andreu, A., Sandoval-Lentisco, A., **Tortajada, M.**, Palmero, L. B., Castillo, A., ... & Fuentes, L. J. (2023). Vigilance decrement and mind-wandering in sustained attention tasks: Two sides of the same coin? *Frontiers in neuroscience*, 17, 1122406. <https://doi.org/10.3389/fnins.2023.1122406>
- Martínez-Pérez, V., **Tortajada, M.**, Palmero, L. B., Campoy, G., & Fuentes, L. J. (2022). Effects of transcranial alternating current stimulation over right-DLPFC on vigilance tasks depend on the arousal level. *Scientific Reports*, 12(1), 547. <https://doi.org/10.1038/s41598-021-04607-8>
- Luna, F. G. *, **Tortajada, M. ***, Martín-Arévalo, E., Botta, F., & Lupiáñez, J. (2022). A vigilance decrement comes along with an executive control decrement: Testing the resource-control theory. *Psychonomic Bulletin & Review*, 29(5), 1831-1843. <https://doi.org/10.3758/s13423-022-02089-x> ***shared first authorship**
- Palmero, L. B., Martínez-Pérez, V., **Tortajada, M.**, Campoy, G., & Fuentes, L. J. (2022). Mid-luteal phase progesterone effects on vigilance tasks are modulated by women's chronotype. *Psychoneuroendocrinology*, 140, 105722.
- Martínez-Pérez, V., Baños, D., Andreu, A., **Tortajada, M.**, Palmero, L. B., Campoy, G., & Fuentes, L. J. (2021). Propensity to intentional and unintentional mind-wandering differs in arousal and executive vigilance tasks. *PLoS one*, 16(10), e0258734.

Scientific divulgation

Sandoval-Lentisco, A., **Tortajada, M.**, Martínez-Pérez, V., & López-Nicolás, R. (2024). Una rata generada por IA se cuela en una revista de alto impacto o, de nuevo, las limitaciones del Factor de Impacto de una revista para evaluar la calidad de la investigación científica. *Ciencia Cognitiva*, 18:4, 14-16.

<https://www.cienciacognitiva.org/?p=2402>

Martínez-Pérez, V., Sandoval-Lentisco, A., Campoy, G., Palmero, L. B., Fuentes, L., & **Tortajada, M.** (2024) Desmitificando el éxito: El síndrome del impostor y por qué no es del todo malo experimentarlo. *The Conversation*.

<https://theconversation.com/desmitificando-el-exito-el-sindrome-del-impostor-y-por-que-no-es-del-todo-malo-experimentarlo-224772>

Main contributions in Congresses

Poster “Testing the influence of participants’ baseline and task load as factors that modulate the effectiveness of theta tACS during working memory maintenance” by Tortajada, M., Martínez-Pérez, V., Palmero, L. B., Roy, S. Melero, L. F., & Campoy, G. (Neuromodulation Conference 2024)

Poster “Tracking Working Memory Load Or Selection With Multivariate Pattern Analysis From Electroencephalographic Data” by Tortajada, M., Fahrenfort, J. J., Sandoval-Lentisco, A., Martínez-Pérez, V., Palmero, L. B., Melero, L. F., Campoy, G. & Olivers, C. N. L. (ESOP 2023).

Poster “Tracking the Time Course of the Removal of Information from Working Memory Using Electrophysiology” by Tortajada, M., Fahrenfort, J. J., Sandoval-Lentisco, A., Martínez-Pérez, V., Palmero, L. B., Melero, L. F., Campoy, G. & Olivers, C. N. L. (Psychonomic Society Meeting 2022).

Oral communication “Removing information from working memory temporarily or permanently.” by M. Tortajada, V. Martínez-Pérez, L. B. Palmero, A. Sandoval-Lentisco, L. J. Fuentes y G. Campoy (SEPNECA 2021).

Oral comunicacion “The vigilance decrement comes along executive control decrement: testing the resources-control hypothesis” Tortajada, M., Luna, F. G., Martín-Arévalo, E., Botta, F., & Lupiáñez, J. (SEPEX 2021).

Organizational activities

- Co-organizer of the ReproducibiliTea journal club at the University of Murcia (2023-Present) (Twitter/X: @ReproTeaUM).

Teaching

- Attention and Executive Functions (University of Murcia, 2020/2021, 2021/2022 and 2022/2023)
- Memory (University of Murcia, 2020/2021)
- Undergraduate final thesis supervision: Alejandro Lillo Fernandez (2021/2022, awarded best Undergraduate Thesis Project), Lola Navarro Zamora (2022/2023), Elena Chacon Campuzano (2022/2023, awarded best Undergraduate Thesis Project), Carmen Hurtado Valcarcel (2023/2024).

Awards and Grants

- **FPU doctoral grant** (Four-year national grant awarded by the Spanish Ministry of Science, Innovation and Universities, 2020)
- **Bachelor's Degree Extraordinary Award** in Psychology (2019)
- **Collaboration grant** (2018/2019)

Additional education

- Attendance to courses of the Bachelor in Data Science and Engineering from the University of Murcia, 1st semester 2023 (Linear Algebra, Introduction to Programming with Python, and Discrete Mathematics)
- Data analysis and reproducible research with R (University of Murcia, 2022)
- Complete neural signal processing and analysis: Zero to hero (Mike X Cohen, Udemy)
- Virtual ERP Boot Camp: Introduction to ERPs (Steve Luck, <https://courses.erpinfo.org/courses/Intro-to-ERPs>).
- International doctoral summer school 2020. Multivariate pattern analyses of EEG data: theory and practice (University of Granada)
- Introduction to Programming with MATLAB (Coursera)