

# Miguel Ayala

## CURRICULUM VITAE

### 1. PERSONAL INFORMATION



**Name:** Miguel Ángel Ayala Cuesta  
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**Birth date:** 27 de julio de 1991  
**Birth place:** Cuenca, Ecuador  
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### 2. ACADEMIC TRAINING

Degree in **Educational Psychologist**, *University of Cuenca* (Ecuador). February 2016

Master in **Cognitive and Behavioral Neuroscience**, *University of Granada* (Spain). July 2020

Ph.D. student in **Experimental Psychology and Behavioral Neurosciences**, *University of Granada* (Spain). Actually studying

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### 3. ACTUAL POSITION

Ph.D. student | Research and teaching staff (PDI)

**3.1 Project supporting thesis:** MICIU/AEI/10.13039/501100011033 and by MCIN/AEI/10.13039/501100011033 and by ESF+, CEX2023-001312-M by MCIN/AEI/10.13039/501100011033 and UCE-PP2023-11 by University of Granada.

**3.2 Research group:** MEMORY AND LANGUAGE (<https://www.memoryugr.es/>)

**3.3 Supervisors:** Pedro Macizo (University of Granada)  
Patrick Lemaire (Aix-Marseille Université)

**3.3 Faculty:** Faculty of Psychology. Mind, Brain, and Behavior Research Center (CIMCYC). Department of Experimental Psychology. *University of Granada*.

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#### 4. PROFESSIONAL EXPERIENCE

Research assistant at the project "TWO WAYS OF HANDLING TWO DOMAINS: A COMMON APPROACH IN THE NEUROSCIENCE OF LANGUAGE AND MATHEMATICS" Ref. PID2019-111359GB-I00/10.13039/501100011033, Proyectos del Plan Nacional 2019, reference 6694 founding by Agencia Estatal de Investigación. University of Granada

Research assistant at the project "Percepción de docentes y estudiantes sobre culturas, políticas y prácticas inclusivas en educación superior". (University of Cuenca, 2018-2019)

Research assistant at the project "Evaluación y Acreditación de la Educación Superior: El caso de la Universidad de Cuenca". (University of Cuenca, 2017-2019)

Educational psychologist with 3 years of experience at the "Centro de Neurodesarrollo Huiracocha Tutivén" (2015-2016 / 2017-2019)

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#### 5. GRANTS

Researcher Personal Training Scholarship (FPI, University of Granada, 2023-2027), PRE2022-102358, funded by the Ministry of Science and Innovation, the State Research Agency. MICIU/AEI/10.13039/501100011033 and by MCIN/AEI/10.13039/501100011033 and by ESF+, CEX2023-001312-M by MCIN/AEI/10.13039/501100011033 and UCE-PP2023-11 by University of Granada.

International mobility aid for doctoral students (University of Granada). 2022/2023 academic year.

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#### 6. MOBILITY

Research stay at the *Diagnostics and Cognitive Neuropsychology Research Group*, Department of Psychology, University of Tübingen (15 September – 15 December 2025)

Research stay in the *Laboratoire de Psychologie Cognitive – UMR 7290 / CNRS / Aix-Marseille Université* (1 September – 30 November, 2023)

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#### 7. DEGREE AND MASTER'S FINAL PROJECTS

Ayala, M., y Tacuri, D. Análisis del bienestar subjetivo en estudiantes universitarios [Degree final project. University of Cuenca]. (2016)

Ayala, M., y Macizo, P. Principios de incremento y restricción en lenguaje y cognición numérica [Master final project. University of Granada]. (2020)

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## 8. PUBLICATIONS

**Ayala-Cuesta, M., & Macizo, P.** (2026). Developmental Traces of Cognitive Control on the Processing of Symbolic Magnitude. *Journal of Experimental Child Psychology*, 265, 1064665. <https://doi.org/10.1016/j.jecp.2026.106465>

**Ayala-Cuesta, M., Castro, S., & Macizo, P.** (2025). Give or Take: Semantic Priming from Sentences to Two-Digit Operations. *Brain Sciences*, 15(6), 662. <https://doi.org/10.3390/brainsci15060662>

**Ayala-Cuesta, M., Macizo, P., & Lemaire, P.** (*submitted*). Congruency between quantity and brightness in young and older adults.

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## 9. TEACHING EXPERIENCE

3 credits in the Department of Experimental Psychology during the academic year 2024-2025, in the Alternative Communication Systems (Degree in Speech Therapy) course

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## 10. MENTORING PROGRAM

Co-tutoring of the Final Degree Project titled "Mejoras en la comunicación de pacientes afásicos mediante el uso del Tratamiento Gestual" in the Degree of Speech Therapy, Faculty of Psychology. University of Granada. Defense date: 22/06/2023

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## 11. CONFERENCES

Ayala-Cuesta, M., Andras, F., & Macizo, P. **Title:** COMMON GROUND BETWEEN WORDS AND NUMBERS: SEMANTIC PRIMING IN LINGUISTIC AND NUMERICAL TASK. **Congress:** VII Jornadas de Investigación. Retos y oportunidades de colaboración en Psicología. **Modality:** Poster. **Place:** Granada (España). **Date:** 5-6 junio, 2025.

Ayala-Cuesta, M., Abril, V., Macizo, P. **Title:** Investigating Cognitive Domain Interactions: Linguistic and Numerical Processing of "Increase" and "Decrease" concepts. **Congress:** XIV Congress of the Spanish Society for Experimental Psychology. **Modality:** Poster. **Place:** Almería (España). **Date:** 23-25 October 2024.

Ayala-Cuesta, M., Abril, V., Macizo, P. **Title:** Semantic and arithmetic additions: a study of cross-domain cognitive processing. **Congress:** XIV Congress of the Spanish Society for

Experimental Psychology. **Modality:** Poster. **Place:** Almería (España). **Dar:** 23-25 October 2024.

Ayala-Cuesta M., Castro, S., Paoilieri D., & Macizo, P. **Title:** Semantic priming across domains: from language to mathematics. **Congress:** The Mathematical Cognition and Learning Society Conference 2023 (MCLS). **Modality:** Poster **Place:** Loughborough (United Kingdom). **Date:** 5-8 June, 2023.

Andras, F., Ayala, M., Ojedo, F., & Macizo, P. **Title:** Numerical Cognition: Beyond just numbers. **Congress:** Jornada de Investigación 10<sup>º</sup> Aniversario CIMCYC. Pasado, Presente y Futuro. **Modality:** Poster. **Place:** Granada (Spain). **Date:** 11-12 May, 2023.

Ayala, M., Castro, S., & Macizo, P. **Title:** Semantic Priming Between Cognitive Domains: Language and Mathematics. **Congress:** Reunión Científica Sobre Atención RECA XIII. **Modality:** Poster. **Place:** Granada (Spain). **Date:** 6-8 October, 2022.

Ayala, M., Castro, S., & Macizo, P. **Title:** Dos vías de acceso para un mismo concepto. Semántica compartida entre dominios cognitivos. **Congress:** III Congreso Nacional - V Jornadas de Investigadores/as en Formación: Fomentando la interdisciplinariedad (JIFFI). **Modality:** Oral communication. **Place:** Granada (Spain). **Date:** 22-24 June, 2022.

Ayala, M., & Macizo, P. **Title:** ¿Qué tienen en común el lenguaje y las matemáticas? Semántica compartida entre dominios cognitivos. **Congress:** I Jornadas Interuniversitarias de estudiantes de Doctorado en Psicología Universidad de Málaga-Universidad de Granada. **Modality:** Online – Oral communication. **Place:** Granada (Spain). **Date:** 5-6 July, 2021.

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## 12. SELECTED COURSES

### EGG

“Electroencefalografía (EEG): preprocesado e introducción a análisis univariados y multivariados” (21 hours). Conducted by María Ruz, Rodika Sokoliuk, and Juan Linde Domingo (Department of Experimental Psychology, University of Granada), 11-20 March, 2025

### Analisis and statistics

“Diseño y análisis experimentales avanzados” (20h). 7th edition. Conducted by Francesco del Petre (University of Granada)

“Introducción a la programación y análisis de datos en R de cálculo” (20h). Conducted by Efraín García and Carlos González (University of Granada)

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## **SKILLS AND EXPERTISE**

- English as second language (B2)
- Experimental designs and execution of research projects
- Data collection experience (E-prime, surveys)
- Statistical analysis in Scientific Research (RStudio, Statistical)
- Basic knowledge of EEG
- Application and interpretation of psychological instruments
- Strong interpersonal and communication skills
- Extensive experience in teamwork and team management

CV updated on 30/01/2026