

Cristina López-Rojas

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CURRENT PROFESSIONAL SITUATION

Global Marie Skłodowska-Curie Postdoctoral Fellow in the *Memory and Language Research Group* lead by Prof. Teresa Bajo at the Research Center for Mind, Brain and Behavior (University of Granada, Spain) & in the *Bilingualism and Psycholinguistics Research Laboratory* led by Prof. Viorica Marian (Northwestern University, USA).

EDUCATION

PhD in Psychology. With Summa Cum Laude distinction and International Mention
University of Granada (Spain)
Defended on the 19th June 2023

M. Sc. in Behavioral and Cognitive Neuroscience
University of Granada (Spain)
Date of completion: July 2018

Degree in Psychology
University of Málaga (Spain)
Date of completion: July 2017

TECHNICAL SKILLS

- Planning and programming experiments using **E-Prime 2/3, OpenSesame and Gorilla Experiment Builder**.
- Data analysis using Excel, SPSS, and JASP.
- Collection of electrophysiological data (BioSemi ActiveTwo; BrainVision analyzer; Curry 8 and 9).
- **Analysis of EEG data with EEGLAB (Matlab)**
- Basic knowledge of data analysis and plotting (**linear mixed models**) using **RStudio**.
- Planning experiments and data collection using the technique of **transcranial direct current stimulation (tDCS)**.
- Open sciences practices (e.g., use of repositories, open publications, etc.)

SCIENTIFIC-ACADEMIC JOBS

2024 - Global Marie Skłodowska-Curie Postdoctoral Fellow

April 2024- September 2027

Department of Experimental Psychology

University of Granada (Spain)

Funded by: HORIZON TMA MSCA Postdoctoral Fellowships – Global Fellowships

2023 - Postdoctoral Research Fellow

July 2023- July 2025

Department of Experimental Psychology

University of Granada (Spain)

Funded by: Vice-Rectorate for Research and Knowledge Transfer (University of Granada)

2018 - PhD student (FPU Spanish Research Teaching Fellowships)

2018-2023

Department of Experimental Psychology

University of Granada (Spain)

Funded by: Ministry of Education and Vocational Training (Government of Spain)

2017 - Research Assistant

2017-2018

Memory and Language Research Group (HUM740) headed by M^a Teresa Bajo

University of Granada (Spain)

Funded by: Vice-Rectorate for Research and Knowledge Transfer (University of Granada)

2017- Research Grantee for Graduates

2017-2018

Memory and Language Research Group (HUM740) headed by M^a Teresa Bajo

University of Granada (Spain)

Funded by: Vice-Rectorate for Research and Knowledge Transfer (University of Granada)

2016 - Research Grantee for Undergraduates

2016-2017

Department of Psychobiology and Methodology of Behavioral Sciences

University of Málaga (Spain)

Funded by: Ministry of Education, Culture, and Sports (Government of Spain)

2016 - Undergraduate Teaching Assistants in the Classroom

2016-2017

Department of Personality, Evaluation and Treatment

University of Málaga (Spain)

Funded by: Faculty of Psychology (Spain)

RESEARCH STAYS ABROAD

Psychology and Sociology Department

13th April 2018 – 13th June 2018

Research stay with Prof. Eleonora Rossi at

California State Polytechnic University (California, USA)

Funded by: Memory and Language Research Group (HUM740) headed by M^a Teresa Bajo

Brain Language and Bilingualism Lab (BlaB)

10th January 2022 – 9th April 2022

Research stay with Prof. Eleonora Rossi as supervisor. Collaboration with the EEG data collection for the HeLPiNG project led by Prof. Jason Rothman from UiT (The Arctic University of Norway).

Department of Linguistic at University of Florida (Gainesville, USA)

Funded by: Ministry of Education and Vocational Training (Government of Spain)

PAPERS PUBLISHED IN SCIENTIFIC JOURNALS

- Luque, A., Rossi, E., Kubota, M., Nakamura, M. Rosales C., **López-Rojas, C.**, Rodina, Y., & Rothman, J. (2023). Morphological Transparency and Markedness Matter in Heritage Speaker Gender Processing: An EEG Study. *Frontiers in Psychology*, 14, 1620. <https://doi.org/10.3389/fpsyg.2023.1114464> (Q1, JCR)
- López-Rojas, C.**, Marful, A., Csillikó, A., & Bajo, M.T. (2023). ERP and behavioural correlates of Prospective Memory during L1 and L2 processing. *Brain Sciences*. 13(2), 365. <https://doi.org/10.3390/brainsci13020365> (Q3, JCR)
- López-Rojas, C.**, Marful, A., Pérez, A., & Bajo, M.T. (2023). Prospective memory in bilinguals: Recalling future intentions in first and second language contexts. *Bilingualism: Language and Cognition*. 1-16. doi:10.1017/S136672892300010X (Q1, JCR)
- López-Rojas, C.** (2022). ¿Cómo afecta el bilingüismo a nuestros “post-it” mentales? Influencia de la experiencia bilingüe sobre el recuerdo de intenciones futuras. *Ciencia Cognitiva*. Published online. (science outreach)
- Cejudo, A.B., **López-Rojas, C.**, Gómez-Ariza, C.J., Bajo, M.T., (2022). ERP Correlates of Prospective Memory and Cue Focality in Children. *Brain Sciences*, 12, 533. <https://doi.org/10.3390/brainsci12050533> (Q3, JCR)
- López-Rojas, C.**, Rossi, E., Marful, A., & Bajo, M. T. (2022). Prospective memory in bilinguals and monolinguals: ERP and behavioural correlates of prospective processing in bilinguals. *Brain and Language*, 225, 105059. <https://doi.org/10.1016/J.BANDL.2021.105059> (Q1, JCR)
- Maldonado, E. F., Nislin, M., Martínez-Escribano, A., Marín, L., Enguix, A., Alamo, A., **López, C.**, Magarín, A., Ortiz, P., Muñoz, M., & García, S. (2019). Association of salivary alpha-amylase and salivary flow rate with working memory functioning in healthy children. *Stress*, 22:6, 670-678, <https://doi.org/10.1080/10253890.2019.1611777> (Q2, JCR)
- Maldonado, E., Nislin, M., Marín, L., Martín-Escribano, A., Enguix, A., **López, C.**, Magarín, A., Alamo, A., Ortiz, P., Muñoz, M., & García, S. (2019). Association between Salivary Alpha-Amylase and Executive Functioning in Healthy Children. *The Spanish Journal of Psychology*, 22, E24. <https://doi.org/10.1017/sjp.2019.26> (Q3, JCR)

PAPERS UNDER REVIEW/ PREPARATION

- López-Rojas, C.**, Bajo, M.T., & Marful, A. (under review). Exploring the effect of language switching practice over prospective memory in bilinguals. *Bilingualism: Language and Cognition*. (Q1, JCR)

Csilinkó, A., **López-Rojas, C.**, Marful, A., & Bajo, M.T. (in preparation). Retrieval Processes in Prospective Memory: An EEG study exploring the role of the linguistic context.

PARTICIPATION IN FUNDED RESEARCH PROJECTS

Remembering (to-do) intentions in the bilingual brain (ToDo-Brain). (Grant Agreement nº 101150333) – Acción Marie Skłodowska Curie, modality HORIZON TMA MSCA Postdoctoral Fellowships – Global Fellowships. 01/04/2024-30/09/2027 Position: PI

Memory Errors in the Brain: neurocognitive mechanisms of learning from errors (ME-Brain). (PID2022-142988NA-I00) Proyectos de Generación de Conocimiento – Ministry of Science and Innovation – Co-funded by EU and Government of Spain. Head Researchers: M^a Jesús Maraver 01/09/2023-01/09/2026
Position: Member (researcher)

La detección de errores como indicador temprano de deterioro cognitivo en el envejecimiento: procesos neurales y estimulación cognitiva y neural. [Error detection as an early indicator of cognitive impairment in aging: neural processes and cognitive and neural stimulation] (B-CTS-384-UGR20) Proyectos I+D+i del Programa Operativo FEDER 2020 – Junta de Andalucía. Head Researchers: M^a Teresa Bajo 01/07/2021-30/06/2023
Position: Member (researcher)

Proyecto ERASMUS + KA2 2020 Teacher Education About Multilingualism. European Commission. Head Researchers at UGR: Alejandra Marful & Daniela Paolieri. 01/09/2021 – 30/09/2023
Position: Member (researcher)

El desarrollo de la memoria prospectiva en niños monolingües y bilingües emergentes: índices neurales y comportamentales [The development of prospective memory in monolingual and emergent bilingual children: neural and behavioral indices] (P20_00107) Ministry of Economic Transformation, Industry, Knowledge and Universities – Junta de Andalucía. Head Researchers: M^a Teresa Bajo 04/10/2021 – 30/06/2023
Position: Member (researcher)

¿Cómo conviven varios idiomas en el cerebro? Transfiriendo la investigación desde el laboratorio a la sociedad [How do coexist languages in the brain? Disseminating research from the laboratory to society](DCT-19-15358). Spanish Foundation for Science and Technology (FECYT) Ministry of Economy and Competitiveness (FECYT) – Government of Spain. Head Researchers: M^a Teresa Bajo 01/07/2020 – 30/09/2021
Position: Member (researcher)

Transfiriendo la neurociencia cognitiva desde el laboratorio al aprendizaje de lenguas [Transferring cognitive neuroscience from the laboratory to language learning] (PCIN-2015-132) Ministry of Economy and Competitiveness – Government of Spain
Head Researchers: M^a Teresa Bajo 15/11/2017 – 30/10/2018
Position: Member (researcher)

OUTREACH PROJECTS

CIENCIAS+LETRAS=CLAP 2.0. (FCT-22-17688) Spanish Foundation for Science and Technology (FECYT) – Ministry of Science and Innovation – Government of Spain. PI: Esther Nieto (UCLM) | Duration: 01/09/2023 – 30/09/2024 | Amount granted: 20.000€ | Type of participation: Member

Teacher Education About Multilingualism (TEAM). ERASMUS + program K2. Funded by European Union. International PI: Anna Ewert - National PI: Alejandra Marful | Duration: 09/01/2020 – 31/08/2023 | Amount granted: 46.808 € | Type of participation: Member

How do coexist languages in the brain? Disseminating research from the laboratory to society. (DCT-19-15358) Spanish Foundation for Science and Technology (FECYT) – Ministry of Science and Innovation – Government of Spain. PI: M^a Teresa Bajo | Duration: 01/07/2020 – 30/09/2021 | Amount granted: 6.000€ | Type of participation: Writing - Member

COMMUNICATIONS IN SCIENTIFIC MEETINGS

Refereed Communications

López-Rojas, C., (October, 2024). "Linguistics Effects on Prospective Memory". Invited talk at SEPEX 2024 (Thematic session 8. The interplay between language, memory and attention in bilinguals). Almería, Spain.

- López-Rojas, C.**, Marful, A., & Bajo, M.T, (July, 2022) "Language switching and working memory in bilinguals". Oral communication at "II Jornadas Interuniversitarias de estudiantes de Doctorado en Psicología Universidad de Málaga-Universidad de Granada". Online.
- López-Rojas, C.**, Marful, A., & Bajo, M.T, (June, 2022) "Modulando el recuerdo de intenciones futuras: Efectos del bilingüismo sobre Memoria Prospectiva". Oral communication at "JIFFI III Congreso Nacional/ V Jornadas de Investigadores en Formación". University of Granada (Spain).
- López-Rojas, C.**, Rossi, E., Marful, A., & Bajo, M.T, (May, 2022). "Prospective Memory in bilinguals and monolinguals: ERP and behavioural correlates of prospective processing in bilinguals". Oral communication at the First Joint APPE - SEPEX Meeting, Algarve, Portugal.
- López-Rojas, C.**, & Bajo, M.T, (June, 2019) "La Memoria Prospectiva en el cerebro bilingüe". Oral communication at "JIFFI II Congreso Nacional/ IV Jornadas de Investigadores en Formación". University of Granada (Spain).

Refereed Posters

- Marful, A., **López-Rojas, C.** & Bajo, T. (2024, May). Contextual Effects on Prospective Memory. APS 2023 Annual Convention. (San Francisco, USA) - Poster
- López-Rojas, C.**, Marful, A., & Bajo, T. (2022, October). Exploring the relation between second language proficiency and cognitive control abilities. RECA XIII. University of Granada, Granada (Spain) - Poster
- Luque, A., Kubota, M., Rosales C., Nakamura, M., **López-Rojas, C.**, Rodina, Y., Rossi, E., & Rothman, J. (2022, October). Event-Related Potential (ERP) Evidence and the Continuum of Nativeness: Considering Agreement Processing in Spanish as Heritage Language. The Fourteenth Annual Meeting of the Society for the Neurobiology of Language (SNL). Philadelphia (United States)- Poster
- López-Rojas, C.**, Marful, A., & Bajo, T. (2022, August). The effect of language switching training over PM performance. 4th International Symposium on Bilingual and L2 Processing in Adults and Childre (ISBPAC). UiT The Arctic University of Norway, Tromsø (Norway) - Poster
- Luque, A., Rosales C., Nakamura, M., **López-Rojas, C.**, González, M., Rodina, Y., Rossi, E., & Rothman, J. (2022, August). Examining Agreement Processing in Spanish as a Heritage Language: An Event-Related Potential (ERP) Study. 4th International Symposium on Bilingual and L2 Processing in Adults and Children. UiT The Arctic University of Norway, Tromsø (Norway) – Poster
- Bajo T., Bellegarda M., Iniesta A., **López-Rojas C.**, Marful A., Paolieri A., Reyes M. & Rivera M. (May, 2022). "Divulgando desde la evidencia científica". V Jornadas de Investigación CIMCY. University of Granada (Spain) - Poster
- López-Rojas, C.**, Marful, A., Pérez, A., & Bajo, M.T, (November, 2021) "Monolinguals and bilinguals prospective memory during text comprehension". 62st Annual Meeting of Psychonomics Society. Virtual. - Poster
- López-Rojas, C.**, Marful, A., Pérez, A., & Bajo, M.T, (June, 2021). "Prospective Remembering in First and Second Language Contexts". XV International Symposium of Psycholinguistics (ISP). University of Nebrija (Spain), virtual. - Poster
- Bellegarda M., Iniesta A., **López-Rojas C.**, Reyes M. & Rivera M. (May, 2021). "¿Cómo conviven varios idiomas en el cerebro? Transfiriendo la investigación desde el laboratorio a la sociedad". IV Jornadas de Investigación CIMCYC. University of Granada (Spain) – Poster
- López-Rojas, C.**, Marful, A., & Bajo, M.T, (September, 2020) "Prospective Memory during L1 and L2 processing: a study with bilinguals and monolinguals". Bilingualism Matters Research Symposium. University of Edinburgh, virtual. – Poster
- López-Rojas, C.**, & Bajo, M.T, (September, 2019) "Prospective Memory in monolinguals and bilinguals". 21st Conference of the European Society for Cognitive Psychology (ESOP). Hosted by University of La Laguna. Tenerife (Spain) – Poster
- López-Rojas, C.**, & Bajo, M.T, (May, 2019) "Estudio de correlaciones entre Memoria Prospectiva y Memoria de Trabajo en bilingües y monolingües". III Jornadas de Investigación CIMCYC, Universidad de Granada. Granada, Spain. – Poster
- Maldonado, E., **López-Rojas, C.**, Magarin A., Alamo A., Ortiz P., Muñoz, M., García, S., Martínez-Escribano, A., Marín, L., & Engüix, A. (October, 2017). "Association among salivary alpha-amylase activity and working memory functioning in healthy children". Fifty-Seventh Annual Meeting of the Society for Psychophysiological Research, Society for Psychophysiological Research. Vienna (Austria) – Poster
- Maldonado, E., **López-Rojas, C.**, Magarin A., Alamo A., Ortiz P., Muñoz, M., García, S., Martínez-Escribano, A., Marín, L., & Engüix, A. (October, 2017). "Association among salivary alpha-amylase activity and executive functioning in healthy children". Fifty-Seventh Annual Meeting of the Society for Psychophysiological Research, Society for Psychophysiological Research. Vienna (Austria) – Poster

Invited Talks

- López-Rojas, C.** (July, 2023). Prospective Processing in Bilinguals and Monolinguals. Talk at the Bilingualism and Psycholinguistics Research Laboratory led by Prof. Viorica Marian. Northwestern University, Online.
- López-Rojas, C.** (March, 2023). Recalling future intentions in first and second language contexts. Talk at the Lifespan Cognition and Development Lab led by Prof. Ellen Bialystok. University of York, Online.
- López-Rojas, C.** (March, 2022). Prospective Memory in Bilinguals and Monolinguals: An EEG study. Talk at the Psycholinguistics Reading Group coordinated by Prof. Jorge Valdés-Kroff (Department of Linguistics). University of Florida (USA).
- López-Rojas, C.** (May, 2018). Cross Cultural Interaction: Learning from Bilingualism. Talk at the International Center of California State Polytechnic University, California (USA).

TEACHING AND MENTORING EXPERIENCE

- **Undergraduate students at the Bachelor's Degree in Psychology:**

Memory and Representation 2019-2022

Department of Experimental Psychology, Faculty of Psychology, University of Granada.

Introduction to Psychology 2022/23

Department of Experimental Psychology, Faculty of Psychology, University of Granada.

Language Psychology 2022/23

Department of Experimental Psychology, Faculty of Psychology, University of Granada.

Mentoring of Undergraduate Thesis (Monitoring Induction in Prospective Memory) 2021/22

Department of Experimental Psychology, Faculty of Psychology, University of Granada.

Undergraduate Teaching Assistants in the Classroom 2016/17

Department of Personality, Evaluation and Treatment, Faculty of Psychology, University of Malaga.

- **Undergraduate students at the Bachelor's Degree in Occupational Therapy:**

General Psychology 2023/24

Department of Experimental Psychology, Faculty of Psychology, University of Granada.

- **Tutor at UNED Motril:**

Psycholinguistics 2023/24. Bachelor's Degree in Psychology.

Research at Educational Environments 2023/24. Bachelor's Degree in Early Childhood Education.

- **Tutor at Consortium for Advanced Studies Abroad (CASA) Granada:**

Tutoring of student Samuel Schuchman for the academic year 2023-2024 - Brown University

Tutoring of student Lella Wirth for the academic year 2023-2024 - Brown University

Tutoring of student Curtis Everett for the academic year 2023-2024 – Harvard University

Tutoring of student Jessica Hong for the academic year 2023-2024 - Brown University

ACADEMIC SERVICE

- **Reviewer.** Journal of the Spanish Society for Experimental Psychology. *Psicológica*; *Bilingualism: Language & Cognition*; *PLOS ONE*.
- **Member of the Scientific Committee,** *Bilingualism Matters Symposium 2025*.

SCIENTIFIC DISSEMINATION ACTIVITIES

2023 – Participation at European Researchers' Night 2023/ University of Granada (Spain) [Planned: 29/09/2023] - Link to webpage

2023 – Publication of the press article “Bilingualism and Memory” Link to webpage

2023 – Talk at Desgranando Ciencia 9 (2023) / Organized by “Hablando de Ciencia” in collaboration with University of Granada and others April-2023 - Link to webpage

2022 – Participation at European Researchers' Night 2022/ University of Granada (Spain) 30/09/2022 - Link to webpage

2022 – Design and development of activities for schools at the CIMCYC Research Center / University of Granada (Spain)

2022-2023 - Link to webpage

2021 – Semifinalist at the 3 Minutes Thesis Competition (2021) / University of Granada (Spain) 11/01/2021 – 24/02/2021- Link to video (see minute 52:30)

2021 – Organization and development of dissemination activities for a project funded by FECYT and the Spanish Government (FCT19-15358) / University of Granada (Spain) 01/07/2020 – 30/09/2021 - Link to webpage / Dissemination activities inside the project included workshops about bilingualism at school, online webinar with parents, open days at the lab, participation in the “blitz talks” sessions at the he 4th annual CIMCYC Research Conference, events organization, virtual workshop in collaboration with “La Sabikaa Taal” and design/record of Youtube Videos.

2018 – Member of Bilingualism Matters at UGR / University of Granada (Spain) 01/02/2018 – At present