

Cristina López-Rojas

ID: 53655683H | Date of birth: 04/04/1994 | lopezrojas@ugr.es



researchgate.net/profile/Cristina-Lopez-Rojas



0000-0002-1500-128X

CURRENT PROFESSIONAL SITUATION

Global Marie Skłodowska-Curie Postdoctoral Fellowship in the *Memory and Language Research Group* at the University of Granada (Spain) and in the *Bilingualism and Psycholinguistics Research Laboratory* at Northwestern University (United States).

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, JASP and RStudio.
- Collection of electrophysiological data (BioSemi ActiveTwo; BrainVision analyzer; Curry 8 and 9).
- **Analysis of EEG data** with **EEGLAB** (Matlab)
- 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 Fellowship

April 2024- April 2027

Advisors: Prof. Teresa Bajo and Prof. Viorica Marian

University of Granada (Spain) and Northwestern University (United States)

Funded by: European Commission. Marie Skłodowska-Curie Actions (MSCA).

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., Csillinkó, A., & Bajo, M.T. (2023). ERP and behavioural correlates of Prospective Memory during L1 and L2 processing. *Brian 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., Marful, A., & Bajo, M.T. (in preparation). Exploring the effect of language switching training over prospective memory in bilinguals.

Csillinkó, 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 PROJECTS

RESEARCH PROJECTS

(PID2022-142988NA-I00) Knowledge Generation Projects – Ministry of Science and Innovation – Co-funded by EU and Government of Spain. PI: M^a Jesús Maraver | Duration: 01/09/2023-01/09/2026 | Amount granted: 81.875€ | Type of participation: Writing - Member (researcher)

Remembering in a group: neurocognitive mechanisms of collaborative memory (PID2021-127728NB-I00) Knowledge Generation Projects – Ministry of Science and Innovation – Co-funded by EU and Government of Spain. PIs: M^a Teresa Bajo & Alejandra Marful | Duration: 01/09/2022-30/08/2025 | Amount granted: 157.058€ | Type of participation: Member (researcher)

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. PI: M^a Teresa Bajo | Duration: 01/07/2021-30/06/2023 | Amount granted: 55.000€ | Type of participation: Member (researcher)

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. PI: M^a Teresa Bajo | Duration: 04/10/2021 – 30/06/2023 | Amount granted: 56.450€ | Type of participation: Member (researcher)

Transferring cognitive neuroscience from the laboratory to language learning (PCIN-2015-132) Ministry of Economy and Competitiveness – Government of Spain. PI: M^a Teresa Bajo | Duration: 15/11/2017 – 30/10/2018 | Amount granted: 200.000€ | Type of participation: 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., 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- accepted). Contextual Effects on Prospective Memory. APS Annual Convention. San Francisco, California (United States) - 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 (ESCP). 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:**
 - Co-tutor of Undergraduate Thesis (Exploring the think/no-think paradigm) 2023/24
Department of Experimental Psychology, Faculty of Psychology, University of Granada.
 - 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 in the “STEM Assistantship Program” from the Consortium for Advanced Studies Abroad (CASA):**

January-May 2024 – Lella Wirth (Brown University) and Curtis Everett (Harvard University).

September-December 2023 - Jessica Hong (Brown University).

ACADEMIC SERVICE

Reviewer. Journal of the Spanish Society for Experimental Psychology. *Psicológica*.

SCIENTIFIC DISSEMINATION ACTIVITIES

2024 – Conferences at the CEIP Abencerrajes (Granada) with occasion of the celebration of the International Day of Women and Girls in Science / Scientific Culture Unit of the Vice-Rector's Office for University Extension, Heritage and Institutional Relations. University of Granada (Spain).

2023 – Participation at European Researchers' Night 2023/ University of Granada (Spain) - 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 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