

Francisco Garre-Frutos

POSTDOCTORAL RESEARCHER • EXPERIMENTAL PSYCHOLOGY

Madrid, Spain

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EDUCATION

PhD in Psychology

Granada, Spain

UNIVERSITY OF GRANADA

2021 – 2025

Thesis: *Awareness, Control, and Automaticity in Value-Modulated Attentional Capture.*

Supervisors: Juan Lupiáñez and Miguel A. Vadillo.

Distinction: International Doctorate; cum laude.

MSc in Cognitive and Behavioral Neuroscience

Granada, Spain

UNIVERSITY OF GRANADA

2020 – 2021

BSc in Psychology

Murcia, Spain

UNIVERSITY OF MURCIA

2016 – 2020

RESEARCH EXPERIENCE

Postdoctoral Researcher

Madrid, Spain

AUTONOMOUS UNIVERSITY OF MADRID • CALL LAB

Jul. 2026–present

RESEARCH STAY

Ghent University • Braem Lab

Ghent, Belgium

Host: Senne Braem.

Sept.–Dec. 2026 (scheduled)

Postdoctoral Researcher

Granada, Spain

UNIVERSITY OF GRANADA • CIMCYC

Jan.–Jun. 2026

Predoctoral Researcher

Granada, Spain

UNIVERSITY OF GRANADA • CIMCYC

Nov. 2021–Dec. 2025

Supervisors: Juan Lupiáñez and Miguel A. Vadillo.

RESEARCH STAY

Vrije Universiteit Amsterdam • Theeuwes Lab

Amsterdam, the Netherlands

Host: Jan Theeuwes.

Sept.–Dec. 2024

SELECTED FELLOWSHIPS & AWARDS

Bridging Postdoctoral Contract

Granada, Spain

UNIVERSITY OF GRANADA • UGR-SANTANDER BRIDGING CONTRACTS PROGRAMME

2026

RLDM Mobility Award

REINFORCEMENT LEARNING AND DECISION MAKING CONFERENCE (RLDM)

2025

Science Outreach Grant

SPANISH SOCIETY FOR EXPERIMENTAL PSYCHOLOGY (SEPEX)

2025

FPU Predoctoral Fellowship

MINISTRY OF UNIVERSITIES, GOVERNMENT OF SPAIN

2021 – 2025

PEER-REVIEWED PUBLICATIONS

- Theeuwes, J., Manini, G., **Garre-Frutos, F.**, Lupiáñez, J., & van Moorselaar, D. (in press). *The capture debate revisited: Proactive or reactive suppression – that is the question*. *Visual Cognition*.
- **Garre-Frutos, F.**, Vadillo, M. A., Theeuwes, J., van Moorselaar, D., & Lupiáñez, J. (2026). *The role of selective attention in value-modulated attentional capture*. *Psychonomic Bulletin & Review*, 33(7), Article 242.
- Franco-Martínez, A., Rey-Sáez, R., Adrián-Ventura, J., ... **Garre-Frutos, F.**, et al. (2026). *Replicating the unconscious working memory effect: A multisite Registered Report*. *Neuroscience of Consciousness*, 2026(1), niaf046.
- Martínez-López, P., Vázquez-Millán, A., **Garre-Frutos, F.**, & Luque, D. (2026). *Assessing the validity evidence for habit measures based on time pressure*. *Behavior Research Methods*, 58(1), Article 7.
- **Garre-Frutos, F.**, Lupiáñez, J., & Vadillo, M. A. (2025). *Value-modulated attentional capture depends on awareness*. *Psychonomic Bulletin & Review*, 32(6), 3025–3040.
- González, F., **Garre-Frutos, F.**, Hinojosa-Aguayo, I., & Hall, G. (2025). *Extinction of outcome-specific Pavlovian-to-instrumental transfer (PIT), instrumental outcome devaluation, and reward-related attentional capture are predicted by affect-driven impulsivity*. *Learning & Behavior*, 53(4), 335–354.
- **Garre-Frutos, F.**, Ariza, A., & González, F. (2025). *The effect of reward and punishment on the extinction of attentional capture elicited by value-related stimuli*. *Psychological Research*, 89(3), Article 89.
- **Garre-Frutos, F.**, Vadillo, M. A., González, F., & Lupiáñez, J. (2024). *On the reliability of value-modulated attentional capture: An online replication and multiverse analysis*. *Behavior Research Methods*, 56(6), 5986–6003.

SELECTED PREPRINTS & ONGOING WORK

- Manini, G.[†], **Garre-Frutos, F.**[†], Martín-Arévalo, E., Botta, F., & Lupiáñez, J. (2026). *Facilitation by irrelevant distractors under high perceptual load: Suppression or controlled distractor prioritization?* *PsyArXiv*.
- Manini, G., **Garre-Frutos, F.**, Botta, F., Martín-Arévalo, E., & Lupiáñez, J. (2026). *Handling fully irrelevant vs. potentially relevant distractors as a function of perceptual load*. *PsyArXiv*.
- Franco-Martínez, A., Ferrer-Mendieta, A., Peiró Lanchares, C., Vadillo, M. A., & **Garre-Frutos, F.** (2026). *Choose your own PAS? Quantitative and qualitative validity evidence for the Perceptual Awareness Scale*. *PsyArXiv*.
- **Garre-Frutos, F.**[†], Martínez-López, P.[†], Ariza, A., Rey-Sáez, R., Luque, D., Vadillo, M. A., & González, F. (2026). *Explicit knowledge modulates Pavlovian attentional biases*. *PsyArXiv*.
- **Garre-Frutos, F.**, & Lupiáñez, J. (2024). *Inhibition of Return and Learned Value*. *PsyArXiv*.

[†] Equal contribution.

SELECTED CONFERENCE PRESENTATIONS

- **Garre-Frutos, F.**, Martínez-López, P., Ariza, A., Rey-Sáez, R., Luque, D., Vadillo, M. A., & González, F. (2026). *Explicit knowledge modulates Pavlovian attentional biases*. Invited talk, XV SEPEX & II Joint Meeting SEPEX-BAPS, Valencia, Spain.
- **Garre-Frutos, F.**, Franco-Martínez, A., Vadillo, M. A., & Rey-Sáez, R. (2026). *A multilevel signal detection framework for unconscious processing research*. Invited talk, XV SEPEX & II Joint Meeting SEPEX-BAPS, Valencia, Spain.
- **Garre-Frutos, F.**, Solana, P., Martínez-López, P., Lupiáñez, J., & Vadillo, M. A. (2025). *Reliability and validity of experimental measures of value-driven attention: A meta-analysis on individual differences studies*. Oral presentation, XI Conference of the European Association of Methodology, Tenerife, Spain.
- **Garre-Frutos, F.**, Vadillo, M. A., Theeuwes, J., Van Moorselaar, D., & Lupiáñez, J. (2025). *Selective attention and explicit awareness independently contribute to the learning process of reward-related attentional biases*. Poster, 28th Annual Meeting of the Association for the Scientific Study of Consciousness, Heraklion, Greece.
- **Garre-Frutos, F.**, Luque, D., Martínez-López, P., Lupiáñez, J., & Vadillo, M. A. (2025). *Modelling Pavlovian attentional biases through reinforcement learning*. Poster, Reinforcement Learning and Decision-Making Conference, Dublin, Ireland.
- **Garre-Frutos, F.**, Vadillo, M. A., Botta, F., & Lupiáñez, J. (2024). *The role of informational value on value-modulated attentional capture*. Poster, 27th Annual Meeting of the Association for the Scientific Study of Consciousness, Tokyo, Japan.
- **Garre-Frutos, F.**, & Lupiáñez, J. (2023). *Inhibition of return and learned value*. Poster, 23rd Conference of the European Society for Cognitive Psychology, Porto, Portugal.

METHODS & TECHNICAL EXPERTISE

Quantitative	Multilevel modelling, psychometrics, reliability analysis, meta-analysis, signal detection theory, computational modelling, reinforcement learning, multiverse inference.
Programming	R, Python, Julia, Stan, JavaScript.
Experimental	PsychoPy, E-Prime, OpenSesame, jsPsych, online behavioural testing.
Open Science	Preregistration, OSF, Git/GitHub, reproducible workflows, open materials and data.

SELECTED FUNDED PROJECTS

Understanding the Learning and Unlearning Dynamics of Myths about (Cyber)Violence Against Women

EUR 2,000 · Since 2026

MARÍA DE MAEZTU UNIT OF EXCELLENCE – CIMCYC · UNLEARN-CVAW

Co-PI.

Let's ROC: A generalization of Signal Detection Theory for the study of unconscious mental processes

EUR 150,000 · Since 2024

AEI · PID2023-150830NB-I00

Research team · PI: Miguel A. Vadillo.

**Conceptual Analysis of Vigilance Decrement:
Attentional Resources, Cognitive Control, and Mind-
Wandering**

EUR 177,250 · Since 2024

AEI · PID2023-148421NB-I00

Research team · PI: Juan Lupiáñez.

**Experimentally investigating the formation of new
habits in humans**

EUR 109,868 · 2022 – 2025

AEI · PID2021-126767NB-I00

Research team · PI: David Luque.

Visiting Scholars Programme

EUR 12,000 · 2025 – 2027

UNIVERSITY OF GRANADA VISITING SCHOLARS PROGRAMME · PPVS2025-01

Research team · Visiting scholar: Jan Theeuwes.

SELECTED METHODOLOGICAL TRAINING

**Barcelona Summer School on Advanced Modeling of Behavior (BAMB
2026)**

Jul. 2026

CENTRE DE RECERCA MATEMÀTICA (CRM), BARCELONA · 92.5 HOURS

**Electroencephalography (EEG): Preprocessing and Introduction to
Univariate and Multivariate Analyses**

Mar. 2025

UNIVERSITY OF GRANADA · 21 HOURS

Annual JAGS Workshop: Bayesian Modeling for Cognitive Science

Jul. 2024

UNIVERSITY OF AMSTERDAM · 140 HOURS

**Seventh Summer School on Statistical Methods for Linguistics and
Psychology (SMLP): Advanced Bayesian Data Analysis**

Sept. 2023

UNIVERSITY OF POTSDAM, GERMANY · 40 HOURS

CIMCYC Workshop on Computational Modelling of Behavioral Data

Jun. 2022

CIMCYC · UNIVERSITY OF GRANADA · 9 HOURS

ACADEMIC SERVICE

Recommender

PCI Registered Reports

EDITORIAL SERVICE

Since 2026

Role: Handling editor for Stage 1 and Stage 2 Registered Reports at Peer Community In Registered Reports (PCI RR).

Junior Editor

Psicológica

EDITORIAL SERVICE

Since 2025

Role: Conduct initial editorial assessments of submissions for suitability for peer review, with a focus on reporting quality, transparency, and reproducibility.

Ad hoc reviewer

PEER REVIEW

Journals: *Journal of Experimental Psychology: Human Perception and Performance*, *Psychological Research*, *Behavior Research Methods*, *Learning & Motivation*, and *Frontiers in Cognition*.