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*

FPU Short Research Stay Grant (EEBB) — *Amsterdam, the Netherlands*
MINISTRY OF UNIVERSITIES, GOVERNMENT OF SPAIN — *2024*

Extraordinary End-of-Degree Award — *Murcia, Spain*
UNIVERSITY OF MURCIA — *2020*

PEER-REVIEWED PUBLICATIONS

- **Garre-Frutos, F.**, Vadillo, M. A., Theeuwes, J., van Moorselaar, D., & Lupiáñez, J. (in press). *The role of selective attention in value-modulated attentional capture. Psychonomic Bulletin & Review.*
- 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.*
- 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.
- **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.
- 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.**, 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

- **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.*
- 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.*
- 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.*
- 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.**, & 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*.