

María Melcón Martín

Facultad de Psicología
Universidad Autónoma de Madrid (UAM)
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EDUCATION

2015 - Present	PhD in Clinical and Health Psychology Autónoma University of Madrid (UAM) Doctoral thesis: Retinotopic Mapping of Endogenous and Exogenous Visuospatial Attention
2013 - 2014	Masters Degree in Neuroscience Complutense University of Madrid (UCM) Cognitive Neuroscience Specialty
2008 - 2013	Degree in Psychology Autónoma University of Madrid (UAM) Clinical and Health's Psychology Specialty

EXPERIENCE

October 2021 - Present	Predoctoral internship at University of Glasgow The effect of cue expectations on the spatio-temporal pattern of the spotlight of attention Memory and Attention Group – Simon Hanslmayr
January 2020 – March 2020	Predoctoral internship at University of Birmingham Multivariate pattern analysis in the study of the spatio-temporal dynamics of the spotlight of attention Memory and Attention Group – Simon Hanslmayr
March 2019 – May 2019	Predoctoral internship at University of Granada Alpha modulation by TMS interference of rTPJ during an endogenous attention task. A TMS/EEG co-registration study Attention and consciousness research group – Ana Chica
November 2017 - Present	Predoctoral Contract for the Training of Research Personnel in Training Autónoma University of Madrid (UAM) <ul style="list-style-type: none">- Doctoral thesis: Retinotopic Mapping of Endogenous and Exogenous Visuospatial Attention- Collaboration in teaching tasks (practical teaching, teaching innovation projects, representation...)
2017 - 2020	Assistant Professor in University Master Degree in Cognitive Neuroscience and Neurophysiology Rey Juan Carlos University of Madrid (URJC) <ul style="list-style-type: none">- Subject: Analysis of Electromagnetic Signals - Practices

November 2016 – June 2017

Research Staff in project “Fronto-parietal contributions to conscious perception”

Universidad de Granada (UGR)

- Time-frequency analysis in intracranial EEG data recordings in patients with epilepsy
- Course on programming with Matlab and EEG analysis with FieldTrip

September 2015 – November 2016

Quality control auditor in DOCENTIA-UAM Program: Identification and Assessment of Teaching.

Autónoma University of Madrid (UAM)

- Evaluation processes and improving university quality
- Review and monitoring of instruments and evaluation procedures.
- Management of specific software.
- Collection and analysis of data for evaluation processes.
- Preparation of reports.

February – May 2013

Psychologist

El parque Clinic, Madrid

- Psychological evaluation, diagnosis and treatment: cognitive-behavioral therapy.

RESEARCH ACTIVITY

Publications

Preprints

Melcón, M., van Bree, S., Sánchez-Carro, Y. Barreiro-Fernández, L., Kolibius, L.D., Alzueta, E., Wimber, M., Capilla, A., Hanskmayr, S. The spotlight of attention turns from rhythmic exploration-exploitation to a stable exploitation state. J Neurosci, rejected after review.

Capilla, A., Arana, L., García-Huéscar, M., Melcón, M., Gross, J., Campo, P. *The natural frequencies of resting human brain: an MEG-based atlas.* NeuroImage, submitted.

Van Bree, S., Melcón, M., Kolibius, L., Kerren, C., Wimber, M., Hanskmayr, S. *Clock time: a foreign measure to brain dynamics.* Nat Hum Behav, preparing revision.

Arana, L., Melcón, M., Kessel, D., Hoyos, S., Albert, J., Carretié, L., Capilla, A. *Suppression of alpha-band power underlies exogenous attention to emotional distractors.* Psychophysiology, in review.

2020

Alzueta, E., Melcón, M., Jensen, O., & Capilla, A. (2020). *The ‘Narcisus Effect’: Top-down alpha-beta band modulation of face-related brain areas during self-face processing.* NeuroImage.

2018

Alzueta, E., Melcón, M., Poch, C., & Capilla, A. (2018). *Is your own face more than a highly familiar face?* Biological psychology.

2016

Capilla A, Melcón M, Kessel D, Calderón R, Pazo-Álvarez P, Carretié L. Retinotopic mapping of visual event-related potentials. Biological Psychology (2016), 118: 114-25 – IF: 3.40

Book Chapters

- 2019** Melcón, M., Alzueta, E., Hernández-Lorca, M. & Capilla, A. Bases neurales de la percepción y la atención. En G. Barg, A. Cuadro & S. Hoyos (2019), *Neurocognición y Aprendizaje*. Montevideo: Magro.

International Congress

- May, 2020** Melcón, M., Sánchez-Carro, Y. Barreiro-Fernández, Capilla, A. Visuospatial distribution of endogenous attention. Cognitive Neuroscience Society (CNS), Virtual Meeting, 2020
- March, 2015** Melcón M., Duplan I, Fernández-González S y Capilla A. Tonic and retinotopically-organized alpha-band modulations by visuospatial attention. 22nd annual meeting, San Francisco, 2015
- March, 2015** Capilla A, Melcón M., Kessel D, Calderón R, Pazo-Álvarez P, Carretié L. Retinotopic Mapping of visual evoked potentials. 22nd annual meeting, San Francisco, 2015

National Congress

- September, 2021** Melcón, M., van Bree, S., Sánchez-Carro, Y. Barreiro-Fernández, L., Alzueta, E., Kolibius, L.D., Capilla, A., Hanskmayr, S. Oral communication: The spotlight of attention: when, how and where. XII Congreso SEPNECA, Cádiz, 2021
- September, 2021** Stern, E., Melcón, M., Poch, C., Campo, P., Capilla, A. Análisis multivariado de la actividad oscilatoria cerebral relacionada con la percepción consciente. XII Congreso SEPNECA, Cádiz, 2021
- September, 2021** Andreu, C., Melcón, M., García-Rubio, C. The effects of a mindfulness-based intervention at school on neural indices of inhibitory control in at-risk children. XII Congreso SEPNECA, Cádiz, 2021
- September, 2021** Capilla, García-Huésca, M., A., Arana, L., Melcón, M., Cano, A., Campo, P. Atlas MEG de las frecuencias naturales del cerebro humano en reposo. XII Congreso SEPNECA, Cádiz, 2021
- April, 2021** Melcón, M., van Bree, S., Sánchez-Carro, Y. Barreiro-Fernández, L., Alzueta, E., Kolibius, L.D., Capilla, A., Hanskmayr, S. The spotlight of attention shifts from rhythmic exploration to stable exploitation. SEPEX, Virtual Meeting, 2021
- July, 2018** Melcón M., García-Huésca M, Capilla A. Retinotopic mapping of visuospatial endogenous attention. First Joint Congress of the SPEX, SEPNECA and AIP experimental, Madrid, 2018
- October, 2014** Capilla A, Melcón M., Kessel D, Calderón R, Pazo-Álvarez P y Carretié L. Mapeo retinotópico de los potenciales relacionados con estímulos visuales. IX Congreso organizado por SEPNECA, Murcia, 2014

Scientific Disclosure

- July, 2019** **What goes on in our babies mind?**
III Edition NeuroBeers
Organizing Committee
- May, 2019** **Pint of Science Granada**
Organizing Committee

September, 2018	Workshop: Do you dare? Test your memory and attention IX European Researchers' Night of Madrid Speaker
July, 2018	The brain stimulated III Edition NeuroBeers Organizing Committee
May, 2018	Pint of Science Madrid Organizing Committee
February, 2018	Woman and Neuroscience II Edition NeuroBeers Organizing Committee
February, 2018	Talk: Neuropsychology Speaker
November, 2017	Brain and Neuroplasticity I Edition NeuroBeers Organizing Committee

SCIENTIFIC TRAINING

November, 2020	Multivariate EEG analysis Spanish society of psychophysiology and cognitive and affective neuroscience (University of Granada, SEPEX and SEPNECA)
June, 2019	Resting-state fMRI functional connectivity Spanish society of psychophysiology and cognitive and affective neuroscience (SEPNECA)
July, 2018	Workshop: Processing of structural brain images obtained by magnetic resonance Spanish society of psychophysiology and cognitive and affective neuroscience (SEPNECA)
July, 2018	Workshop: Dynamic systems, brain and cognition Spanish society of psychophysiology and cognitive and affective neuroscience (SEPNECA)
January, 2018	Workshop: Processing and analysis of brain response evoked by the heartbeat Spanish society of psychophysiology and cognitive and affective neuroscience (SEPNECA)
September, 2017 – June 2018	Psychtoolbox for dummies: workshop in the Psychology Degree Teacher innovation project in UAM, participant in the work team
June, 2017	Time - Frequency analysis on EEG signal PhD in Clinical and Health Psychology Program (UAM) Dr. Claudia Poch
May, 2017	Functional Connectivity for Magnetic Resonance Imaging Granada University (UGR)

April, 2017	I International CIMCYC Workshop: from representations to cognitive theory Granada University (UGR)
February – June, 2017	Basic programming in Matlab and advanced EEG analysis in Fieldtrip Course taught at Granada University (UGR)
January, 2017	Multivariate approaches in fMRI Spanish society of psychophysiology and cognitive and affective neuroscience (SEPNECA)
September, 2016 – June 2017	Psychtoolbox for dummies: an online workshop for begginers Teacher innovation project in UAM, participant in the work team
May – June, 2016	How to write scientific texts in Psychology PhD in Clinical and Health Psychology Program (UAM) Dr. Orfelio León
April, 2016	When the brain sends: workshop for Conflict Management Institute of Forensic Sciences and Security (UAM)
May, 2015	Neuroimaging in Cognitive Neuroscience PhD in Clinical and Health Psychology Program (UAM)
January, 2015	Introduction to R as an alternative software for data analysis PhD in Clinical and Health Psychology Program (UAM)

OTHER SKILSS

Languages	Spanish: native English: advance (C2)
Computer skills	Programming and data analysis skills: Matlab Electrophysiological data recorging: Biosemi Toolboxes for EEG: Matlab, Fieldtrip, MVPA-light, Brain Time