Marina Charquero Ballester

Post-graduate Research Assistant
Centre for Functional MRI of the Brain (FMRIB)
Nuffield Department of Clinical Neurosciences, University of Oxford
marina.charqueroballester@ndcn.ox.ac.uk
https://www.fmrib.ox.ac.uk/team/research-scientists/marinacharqueroballester



RESEARCH POSITIONS

Nov 2014 – present Post-graduate Research Assistant, Human Connectome Project, FMRIB

Centre, University of Oxford (Dr Gwenaëlle Douaud, Prof. Stephen Smith

and Prof. Timothy Behrens).

Analysis of diffusion weighted data in healthy subjects to study

structural connectivity changes across the lifespan.

Nov 2013 – present Post-graduate Research Assistant, Analysis and Clinical Neuroscience

group, FMRIB Centre, University of Oxford (Dr Gwenaëlle Douaud).

Behavioural and neuroimaging data analysis on the connectivity of the basal ganglia in healthy subjects, Parkinson's and Huntington's disease

patients.

Nov 2012 – Aug 2013 Research Internship, FMRIB Centre, University of Oxford (Dr Gwenaëlle

Douaud).

Master's Thesis: "Investigating in vivo the role of the striatum in working memory and episodic memory: a combined structural and functional

connectivity study in healthy children and adolescents".

Dec 2009 – Jul 2011 Under-graduate Research Assistant, Department of Methodology and

Behavioral Sciences, University of Valencia (Prof. Salvador Algarabel).

Data collection and neuropsychological assessment of participants suffering from mild cognitive impairment and age-related

neurodegenerative diseases.

EDUCATION

Sep 2011 - Aug 2013 Research Master in Cognitive and Clinical Neuroscience, Maastricht

University, the Netherlands (GPA 7.8/10). Master's Thesis 8.5/10 and

Research Internship 9/10.

Sep 2006 – Jun 2011 BSc in Psychology, University of Valencia, Spain (GPA 7.7/10). Final

project 10/10.

AWARDS

October 2012 Best research proposal, Research Master in Cognitive and Clinical

Neuroscience (Neuropsychology), Maastricht University.

"Insights from neuroimaging into the relationship between post-traumatic stress disorder (PTSD) and posttraumatic growth (PTG): a

longitudinal study."

SKILLS

Bash scripting – intermediate

FMRIB Software Library – advanced

- Linear and non-linear registration (FLIRT and FNIRT)
- Model-based segmentation of subcortical structures (FIRST)
- Optimised voxel-based morphometry (FSL-VBM)
- Fitting of diffusion tensor model and tract-based spatial statistics (DTIFIT and TBSS)
- Estimation of diffusion parameters and probabilistic tractography (BEDPOSTX and PROBTRACKX)
- Multivariate decomposition of fMRI data into Independent components (MELODIC)
- Statistical analysis of imaging data (RANDOMISE and DUAL REGRESSION)

Statistical Package for the Social Sciences (SPSS) – advanced

Matlab - Intermediate E-prime – intermediate Inkscape – intermediate

GRANTS

| Nov 2012 – Jul 2013 | Erasmus Internship grant (FMRIB Centre, University of Oxford, UK). |
|---------------------|--|
| Nov 2010 – Jul 2011 | Research Assistant Fellowship (University of Valencia, Spain). |
| Sep 2008 – Jun 2009 | Erasmus grant (Katholieke Universiteit Leuven, Belgium). |
| Sep 2008 – Jun 2009 | Bancaja International grant (Katholieke Universiteit Leuven, Belgium). |

CONFERENCE PRESENTATIONS

"Anterograde amnesia caused by section of the fornix: A neuropsychological and neuroimaging study." Espert, Raúl; Martí, Luis; Alberich, Angel; Fuentes, Manuel; Charquero Ballester, Marina; Meléndez, Juan Carlos; Navarro, Esperanza; Sales, Alicia. LXIII Annual Meeting of the Spanish Society for Neurology; Barcelona, Spain, November 2011.

"Relational memory in mesial temporal lobe epilepsy." Sales, Alicia; Pascual, Belen; Charquero Ballester, Marina; Lozano, Vera; Algarabel, Salvador; Meléndez, Juan Carlos; Escudero, José; López-Trigo, José. XXVIII Annual Meeting of the Valencian Society of Neurology; Valencia, Spain, May 2011.

CLINICAL EXPERIENCE

| Jan 2011 - Jun 2011 | Internship | in | the | Departmen | nt of | Neurology, | Hospital | General | |
|---------------------|---|----|-------|------------|---------|------------|-----------|-----------|--|
| | Universitario de Valencia (Manuel Fuentes Casañ). | | | | | | | | |
| | Assessment | an | d dia | agnosis of | elderly | patients v | with mild | cognitive | |
| | impairment or dementia due to neurodegenerative diseases. | | | | | | | | |

Oct 2010 – Jan 2011 Internship in Hospital Pare Jofré, Valencia (Prof. Pilar Barreto)

Crisis intervention training to provide psychological support for extremely frail patients with chronic diseases (e.g stroke, neurodegenerative diseases and cancer).