

Marina Charquero Ballester

Department of Media and Journalism Studies, Aarhus University
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Work Experience

Postdoctoral researcher , Aarhus University	May 2020 – present
Use of data science and natural language processing to study public emotion and collective behaviour on social media	
Postdoctoral researcher , University of Oxford	April 2019 – April 2020
Characterisation and prediction of neuropsychiatric disorders through Bayesian modelling of brain neuroimaging data	
Postgraduate Research Assistant , University of Oxford	Nov 2014 – Apr 2015
Development of analysis pipelines for a big data project (Human Connectome) studying the microstructure of brain white matter tracts.	
Postgraduate Research Assistant , University of Oxford	Nov 2013 – Nov 2014
<i>In vivo</i> characterisation of the integrity of the basal ganglia to predict onset of symptoms in Huntington's disease	

Education

PhD in Medical Sciences , University of Oxford	May 2015 – May 2019
MSc in Cognitive and Clinical Neurosciences , Maastricht University	Sep 2011 – Aug 2013
BSc in Psychology , University of Valencia	Sep 2006 – Jun 2011

Technical skills

Programming languages	Python, Matlab, Bash, SQL
Machine learning	Statistics, Bayesian models, Natural Language Processing, supervised and unsupervised methods for data analysis

Other training & activities

AI for Good Foundation, London

Sep 2019-March 2020

- Developing an AI agent to raise awareness and provide guidance in cases of domestic violence

Danish Big Data Centre for Health and Environment

28 Aug -3 Sep 2019

- Attendance to summer school on experimental design and data analysis for data from personalised sensors

Publications

Nissen IA, Walter J, **Charquero-Ballester M**, Bechman A. Digital Infrastructures of COVID-19 Misinformation: a new conceptual and analytical perspective on fact-checking. In review

Charquero-Ballester M*, Walter J*, Nissen IA, Bechman A. (2021) *Different types of misinformation have different emotional valence on Twitter*. Big Data and Society; 8(2)

Charquero-Ballester M, Kleim B, Vidaurre D, Ruff C, Williams SCR, Stark EA, McManners H, Bar-Haim Y, Woolrich M, Kringelbach ML, Ehlers A. (2020) *Effective psychological treatment for PTSD changes the dynamics of specific large-scale brain networks*. In review

Pflanz CP, **Charquero-Ballester M**, Majid A, Winkler AM, Vallee E, Aron AR, Jenkinson M, Douaud G. (2020). *One-year changes in brain microstructure differentiate preclinical Huntington's disease stages*. NeurolImage: Clinical; 25

Warrington S, Bryant KL, Khrapitchev AA, Sallet J, **Charquero-Ballester M**, Douaud G, Jbabdi S, Mars RB, Sotiropoulos SN (2019). *XTRACT-Standardised protocols for automated tractography and connectivity blueprints in the human and macaque brain*. NeurolImage; 217

Stark EA, Parsons CE, Van Hartevelt TJ, **Charquero-Ballester M**, McManners H, Ehlers A, Kringelbach, ML. (2015) *Post-traumatic stress influences the brain even in the absence of symptoms: a systematic, quantitative meta-analysis of neuroimaging studies*. Neuroscience Biobehavioural Reviews; 56: pp. 207-21