Ensor Palacios – Curriculum Vitae

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Education

2018-2023 **Phd**: University of Bristol, Wellcome Neural Dynamics Programme.

2015-2017 **Master**: University of Padua, Cognitive Neuroscience and Clinical Neuropsychology (Department of Psychology). 110/110 *cum laude*.

2012-2015 **Bachelor**: University of Padua, Cognitive Psychology and Psychobiology (Department of Psychology). 106/110.

Projects

2024-present **Effects of air pollution on dementia**
Postdoctoral transition fellowship: investigating the relationship between air pollution on dementia in the UK Biobank cohort; MRC Integrative Epidemiology Unit, University of Bristol.
Supervisor: Kate Tilling.

2018-2023 **Cerebellar neuronal dynamics**
PhD project: excitatory-inhibitory balance and information processing in the cerebellar cortex; University of Bristol.
Supervisors: Conor Houghton, Paul Chadderton.

2018-2018 **Neuronal self-organisation**
UCL internship: simulations of neural network self-organisation under the free energy principle; Wellcome Trust Centre for Human Neuroimaging (UCL).
Supervisor: Karl Friston.

2017-2017 **Biological self-organisation**
Master dissertation: simulations of biological self-organisation under the free energy principle; Wellcome Trust Centre for Human Neuroimaging (UCL).
Supervisor: Karl Friston.

2015-2015 **Psychophysics of visual motion**
Bachelor dissertation: neural correlates of visual motion perception using tDCS stimulation and EEG recordings; University of Padua.
Supervisor: Gianluca Campana.

Awards

2024 Wellcome Trust funded Neural Dynamics Transition Fellowship

2018 Wellcome Trust PhD Studentship

2018 Erasmus scholarship

2017 Erasmus scholarship

Programming experience

Matlab (internship)

Python (Phd)

R (postdoc)

Publications

Palacios E. R., Chadderton P., Friston k., Houghton C., Cerebellar state estimation enables resilient coupling across behavioural domains, Scientific Reports, 2024 https://www.nature.com/articles/s41598-024-56811-x

Palacios E. R., Houghton C. and Chadderton P., The role of Golgi cells in cerebellar cortical transformation. SFN poster, 2022. https://zenodo.org/record/7304821#.Y4SSiDPP2V4.

Palacios E. R., Houghton C.* and Chadderton P.*, Accounting for uncertainty: inhibition for neural inference in the cerebellum, Proceedings of the Royal Society B, 2021. https://doi.org/10.1098/rspb.2021.0276.

Palacios E.R., Isomura T., Parr T., Friston K., The emergence of synchrony in networks of mutually inferring neurons, Scientific Reports, 2019 https://doi.org/10.1038/s41598-019-42821-7.

Palacios E. R., Razi A., Parr T., Kirchhoff M., Friston K., On Markov blankets and hierarchical self-organisation, Journal of Theoretical Biology, 2020 https://doi.org/10.1016/j.jtbi.2019.110089.

Kirchhoff M., Parr T., **Palacios E. R.**, Friston K. and Kiverstein J., The Markov blankets of life: autonomy, active inference and the free energy principle, Journal of The royal society interface, 2018 http://doi.org/10.1098/rsif.2017.0792.

* equal contribution