



Postdoc project at University College London (stipend required)

A neuroimaging project at the Wellcome Trust Centre for Neuroimaging and Institute of Cognitive Neuroscience at University College London is looking for an interested postdoc to join. The project will start in September 2019, the postdoc would ideally start end of 2019 / Beginning of 2020 for a period of at least 2 years. Funding for salary is not available, however, we will help with applications for postdoc stipends, via e.g. DFG or DAAD (which should take about 6 months in evaluating). The project and the stipend application is linked to a senior research fellowship from Alzheimer's Research UK awarded to Dorothea Hämmerer as well as the lab for Clinical Neurophysiology and Memory, headed by Prof. Emrah Düzel at the Institute of Cognitive Neuroscience at University College London. (<https://www.ucl.ac.uk/icn/>).

The candidate's job will be to carry out functional and structural imaging as well as a pharmacological intervention in patients with mild Alzheimer's dementia. The goal of the project is to investigate whether drugs targeting the noradrenergic system can improve cognitive symptoms in early Alzheimer's dementia. Brain structures supporting noradrenergic modulation are among the first to be affected in Alzheimer's dementia. A better understanding of the role of the noradrenergic brain system in early Alzheimer's disease can open new ways of alleviating symptoms and influencing disease progression favourably. The project offers an exciting research opportunity in a novel area of dementia research using cutting edge research methodologies. The candidate is expected to prepare and analyse data for publications and for presentation at international conferences as well as internal meetings at UCL, and meetings with external collaborators.

The candidate will leave the project with a state-of-the-art skillset relevant for neuroscientific research on ageing and dementia. The ideal candidate will have a PhD in a relevant discipline such as Psychology, Biology, or a Medical Degree. Experience with the use of Matlab, Python or R is essential, with acquiring and analysing brain imaging data, in working with older volunteers or patient populations, decision making and/or episodic memory research is desirable. The candidate is further expected to conduct independent research within the overall theme of this project.

The project has close ties with the German Research Centre for Neurodegenerative Diseases in Magdeburg, Germany (<https://www.dzne.de/ueber-uns/standorte/magdeburg/>). The Institute of Cognitive Neuroscience offers a vibrant and friendly work environment. It hosts a multitude of groups spanning cognitive neuroscientific research across a variety of cognitive functions, different developmental stages as well as in disease. The project is part of a collaboration involving Dr. Martina Callaghan at the Wellcome Trust Centre for Human Neuroimaging (for MRI data acquisition) (<https://www.fil.ion.ucl.ac.uk/>), Prof. Ray Dolan at the Max-Planck Centre for Computational Psychiatry (for data analyses and computational models of decision making) (<https://www.mps-ucl-centre.mpg.de/en>), and Prof. Rob Howard at the Division of Psychiatry (for work with Alzheimer's patients) (<https://www.ucl.ac.uk/psychiatry>), all at University College London, as well as Dr. Paresh Malhotra at Imperial College London (for drug interventions in Alzheimer's patients) (<https://www.imperial.ac.uk/departments-of-medicine/research/brain-sciences/>). These institutions and collaborators are among the world leaders in their respective fields and provide an excellent infrastructure for this interdisciplinary project.

If you are interested or for further information,

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