

Dear Dr. Tsetsos,

I am pleased to attach my CV for the postdoctoral position in Decision Neuroscience as advertised on the Fieldtrip mailing list.

Complex cognitive processes like decision making are shaped by available sensory information in temporally structured ways, however such dynamics are disrupted in the case of neurotransmitter imbalance, most notably during medicated or intoxicated states. These dynamics are best investigated using functional neuroimaging techniques with high temporal resolution such as MEG or EEG, which, by way of source reconstruction methods, allow for finer spatial localisation in prefrontal regions that are critical for decision making.

I am interested in probing the healthy and the pharmacologically perturbed brain states during decision making in order to obtain a neurophysiologically richer understanding of choice that considers both large-scale events (such as event-related potentials and synchronisation) as well as availability of a given neuromodulator.

In my research, I began in the field of motor neuroscience, working with patients with Parkinson's disease in the medicated and unmedicated states. However, I became more interested in cognitive neuroscience and completed a study looking at how dopamine modulates local synchrony and cortico-subcortical connectivity during the presentation of emotional pictures. I believe this experience to be a solid ground to expand into research with a stronger cognitive focus and I am genuinely excited to delve into machine learning methods of neural decoding.

My current contract expires in July, however I would be able to join the lab in June. I look forward to discussing my application in more detail in an interview.

Best regards,

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