



THE OPPORTUNITIES AND CHALLENGES OF INCORPORATING 7-TESLA MRI INTO NEUROIMAGING RESEARCH

Trevor Steward

MRFF Emerging Leadership Fellow
Melbourne School of Psychological Sciences

Abstract


The growing number of available ultra-high field (UHF) 7-Tesla MRI scanning facilities poses challenges and opportunities alike for neuroimaging researchers. In this seminar, I will speak about our group's experience using 7T fMRI within the context of cognitive neuroscience, psychology, and psychiatry research. The trade-offs between field strengths (3T vs. 7T) will be discussed, as well as considerations to take into mind when setting up an analysis pipeline. Our aim is to help researchers better understand how 7T MRI may be exploited to develop more efficient or comprehensive experimental designs and to craft well-rounded research proposals.

Biosketch

Dr. Trevor Steward is a NHMRC/MRFF Senior Research Fellow investigating the neurobiology of psychiatric disorders. His research focuses on using functional magnetic resonance imaging (fMRI) to understand how the brain regulates emotions and reframes negative beliefs.



Hosted by: **Carles Soriano Mas**
carles.soriano.mas@gmail.com

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Faculty of Psychology of the UB
Campus Mundet | Aula, Sala de Graus

