

# 210<sup>th</sup> WPI-IIIS Seminar

## Towards blinded classification of levels of consciousness from neural recordings

What are the neural mechanisms that regulate level of consciousness from coma, vegetative states, through general anaesthesia and dreamless sleep to lucid dreaming in sleep and full wakefulness? While previous studies have reported that specific time-series features correlate with level of consciousness, such features often lack principled, theoretical justifications as to why they should be related with level of consciousness. Here, we propose a novel approach where we compare theory-justified measures against >7,700 different methods under a registered report format. Our approach promotes rigorous testing of theory predictions with null findings, minimising the report bias and maximising the transparency and reproducibility of the science of consciousness.



### Dr. Naotsugu Tsuchiya

School of Psychological Sciences,  
Monash University, Australia

Date: **Wednesday, November 13, 2024**

Time: **11:00 – 12:00**

Venue: **1F Auditorium, IIIS Building**

\* On-site participation only



Contact: International Institute for Integrative Sleep Medicine, University of Tsukuba  
029-853-5857 (ext.5857) | [wpi-iiis-alliance@ml.cc.tsukuba.ac.jp](mailto:wpi-iiis-alliance@ml.cc.tsukuba.ac.jp)