

Departmental Seminar

The Temporal Organization of Visual Perception

11:00 a.m. – 12:00 noon | June 22, 2017 (Thursday)

Rm 813, 8/F, The Jockey Club Tower | Centennial Campus | The University of Hong Kong



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Abstract

There is growing evidence that cognitive and perceptual systems have an inherent temporal structure that is present even prior to stimulus presentation. Here, I will present recent work from my lab investigating the mechanisms underlying these temporal integration windows. Our results suggest that a hierarchy of temporal cycles play a role in creating capacity limits in perception and working memory, as well as influencing our subjective interpretation of events. These studies, using behavioral measures, EEG, MEG and eyetracking, suggest a link between neural oscillations, visual perception, oculomotor planning and working memory. Overall, this work points to a critical role of the brain's time frames in organizing and aligning perception, cognition and action.

~All are Welcome~