

Departmental Seminar

Dissociable Electrophysiological Correlates of Face Perception: Detection, Norm-based Coding, and Identification

11:30 a.m. – 12:30 p.m. | October 30, 2018 (Tuesday)

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



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Abstract

The strengths of event-related brain potentials (ERPs) include a millisecond time resolution window to neural processes underlying perception and recognition of complex stimuli under relatively natural viewing conditions. I will present both systematic research conducted over the past 25 years and current data which show how we can systematically link different ERP components to different functional processes that relate to face detection (N170), norm-based coding (P200), and identification (N250). The research I present provides converging evidence for these links emerging from investigations with diverse paradigms, including own-race and own-age biases in face perception, effects of facial distinctiveness and photorealistic caricaturing, effects of parametric manipulations of distance-to-norm in faces and their corresponding anti-faces, and effects of facial familiarity. While basic research is yet to exploit the full potential of ERPs to investigate multiple processes in face perception, I will show a few applied examples for how these components can be used as tools to probe different aspects of face perception that are induced experimentally, or that are subject to individual differences in face recognition abilities.

~All are Welcome~

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