



## EdUHK PS Psychological Science Seminar Series

### Executive functions in autism: A need to understand the developmental mechanisms

**Date & Time:**

22 Jan 2025 (Wed)  
2:00pm - 3:00pm

**Venue:** B4-LP-01

#### Abstract:

Autism is characterized by difficulties in social communication and flexible behaviors. These issues are believed to be associated with challenges in higher-order cognitive processes necessary for goal-directed behaviors, namely executive functions. Despite significant research efforts, the developmental mechanisms behind these challenges remain unclear. In this talk, I will highlight some of the behavioral, neuroimaging, and meta-analysis research conducted by my team and collaborators to provide some insights on executive function development in autism. It is believed that the field would benefit from further research that investigates the change in executive function over time and its underlying neural mechanisms.

#### Speaker:



**Dr. Yeung** is a cognitive neuropsychologist interested in the cognitive functions of the human prefrontal cortex. His research particularly focuses on understanding the cognitive, biological, developmental, and clinical aspects of executive functions using a variety of methods, including functional near-infrared spectroscopy and electroencephalography. Dr. Yeung's current projects, supported by internal and external grants including the General Research Fund and Innovation and Technology Support Programme, aim to elucidate the influences of motivational and emotional factors on executive functions, compare the developmental differences in executive functions between healthy and autistic populations, and develop interventions for autism.

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<https://forms.gle/gFSScU4gXFVuSDZN7>

