



Towards Exceptional Visual Cognition And Creativity

17 April 2023

11:00 a.m. - 12:30 p.m. (HKT)

Abstract

I will present behavioral and neural evidence that dissociation between ventral and dorsal systems exists in individual differences in visual imagery and creativity. In particular, I will present evidence for the existence of different types of visualization abilities: object visualization (imagining objects in color, shape, and detail), which is critical for success and creative performance in artistic professions, and spatial visualization (imagining spatial relations between objects and performing spatial transformations), essential for success and creative performance in science and engineering. Finally, I will discuss the results of two studies demonstrating possibilities to significantly boost visual cognition and creativity due to playing high-arousal video-games corresponding to specific criteria.

Speaker

Maria Kozhevnikov is an Associate Professor at the Department of Psychology, National University of Singapore. She also holds a research faculty position at Harvard Medical School and Martinos Center for Biomedical Imaging. Maria Kozhevnikov received Ph.D from Technion (Israel) jointly with UC Santa Barbara (CA). Prior to joining the National University of Singapore, she has held faculty positions at Rutgers University (NJ) and George Mason University (VA) and has also served as a Program Director at the US National Science Foundation. Maria Kozhevnikov's research interests include human-computer interaction and immersive 3D virtual reality technologies, creativity and enhanced cognitive states, and individual differences in visual cognition and cognitive style.

ZOOM



To register, please visit:
<https://cityu.zoom.us/meeting/register/tJlscOut-rj0tE9epzMt2GyeddkmR3gNM6HvC>

Contact

Professor Fiona NAH Fui-Hoon
Department of Media and Communication
Tel: (852) 3442 8868
Email: fiona.nah@cityu.edu.hk
<https://research.class.cityu.edu.hk/brain/>