



Department of Psychology  
The University of Hong Kong

香港大學心理學系

## Departmental Seminar

### Feedback Processing, Attention, and Consciousness

11:00a.m. – 12:00noon | May 26, 2025 (Monday)

Room 814, The Jockey Club Tower | Centennial Campus | The University of Hong Kong



#### Professor Sheng He

Institute of Biophysics

Chinese Academy of Sciences (CAS)

#### Abstract

I will present experimental evidence to support the following general picture of information processing in our brain. Our brain continuously builds and tests world models (perceptual inference), through feedforward and feedback interactions, active and oscillatory attentional sampling, and intentional top-down guidance. In the process, consciousness emerges, enabling broadly integrated representation and flexible manipulation of information.

#### About the Speaker

Sheng He is a Professor at the Institute of Biophysics, Chinese Academy of Sciences (CAS), where he also serves as the Academic Deputy Director. He earned his Ph.D. in Psychology from UC San Diego and completed postdoctoral research at Harvard University. He then joined the University of Minnesota's Department of Psychology, where he became a full professor. In 2020, he transitioned full-time to the Institute of Biophysics at CAS.

Sheng He's research focuses on human cognitive neuroscience, with a particular emphasis on visual cognition, including the neural mechanisms of visual attention and visual awareness. His work combines psychophysics, non-invasive brain imaging techniques (fMRI, MEG, EEG), and brain stimulation to explore the functional and neural bases of visual processing.

#### Zoom Meeting (For participants who couldn't attend the Seminar in person)

<https://hku.zoom.us/j/6985555998?pwd=V05yTGJWNTlzaZd2OFZ0Q3FReHVkdz09>

Meeting ID: 698 555 5998 | Password: Psyc

~All are Welcome~

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