

# GILAD SILBERBERG

**CV**

SPEAKER AT:

## HOW MIND EMERGES FROM BRAIN: A VIEW INTO THE FUTURE

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Dr. Gilad Silberberg is Associate Professor at the department of neuroscience at the Karolinska Institute, Stockholm, Sweden. He obtained his PhD from the Weizmann institute in Israel, and then continued for a postdoc at the EPFL, Lausanne. He moved to Sweden in 2005 supported by a HFSP fellowship and established his own lab in 2008. His main interest lies in the neural circuits in cortex and basal ganglia underlying sensorimotor processing. The lab is primarily supported by an ERC starting grant and grants from the Swedish medical research council. The Neocortex and Basal Ganglia are tightly linked to each other via the cortico-striatal pathway. This pathway provides the main excitatory drive to the input nucleus of the basal ganglia, the striatum, and is involved in various motor, cognitive, and emotional functions. In order to understand the functional interactions between these brain regions, it is essential to have a deep knowledge of their underlying microcircuits. In his lab they study the structural and functional properties of the neocortical and striatal microcircuits, as well the interactions between these two brain areas (cortico-striatal pathway). They use electrophysiological, anatomical, and imaging techniques as well as computer models in order to reveal the intricate organization of neurons and their synaptic connections.

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