Perceptual Plasticity and Cognitive Abilities

Biography

The relations between psychological phenomena and their underlying physiological mechanisms have always fascinated me. I began my scientific career with single unit electrophysiology in behaving monkeys. I continued with psychophysics, studying perceptual learning in adult humans. In the past few years I have focused on even higher level skills. We are now studying the relations between perception and cognition.

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Research

Recent media attention:

New Findings on Dyslexia May Aid Diagnosis, Intervention (PsychCentral)

Dyslexia linked to shorter memory trace of previous stimuli (Science Daily)

Hebrew U. researchers gain insight into brain mechanisms underlying dyslexia (Jerusalem Post)

How does dyslexia sound? (TheMarker)

What Musicians Can Tell Us About Dyslexia and the Brain (WIRED)

Recent talks in English:

The Predictive Brain

Perception and Dyslexia: A Computational Framework

Recent talks in Hebrew:

How do we learn new skills? (Cinema & Brain week)

Relation between memory, perception and learning (Madua series)

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Our Int'l Ph.D. program provides outstanding students with top-notch courses in computational neuroscience.

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The Building

The Jerusalem Brain Sciences Building will provide a state-of-the-art research and teaching facility for the Edmond and Lily Safra Center for Brain Sciences.

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