Dr Orna Rosenthal

Research Fellow

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About

Dr Rosenthal's research interests focus on basic mechanisms of perceptual dynamics, learning and recovery. Her work is multi disciplinary in its nature. She has a very extensive research experience in studying perception and learning in humans (both healthy and neurologically impaired) and primate, using psychophysical, neurophysiological, neural modeling, engineering and robotic methodologies.

Recently Orna had expanded her interest to the field of motor learning and robot rehabilitation. She colaborates Chris Miall, Jeremy whyatt and Alan Wing on an MRC project aimed at developing a novel approach of robot-mediated motor rehabilitation for stroke patients. The purpose is to develop an optimal online performance based method of training schedule which is adaptive and tailored to each individual motor abilities.

Qualifications

PhD

Research

Research interests

- Mechanisms of perceptual and motor learning and recovery
- Aplied neuroscience in rehabilitation and learning facilitation
- Perceptual modulation and awareness

Publications

Rosenthal, Orna, Davies, Martin, Aimola Davies, Anne and Humphreys, Glyn (in press), *A role of 3D surface-from-motion cues in motion-induced blindness* Perception 42(11).

Rosenthal, Orna, and Humphreys, Glyn (2010), *Perceptual organization without perception: The subliminal learning of global* Psychological Science 21(12): 1751-1758.

Keane, Brian, Rosenthal, Orna, Chun, Nicole and Shams, Ladan (2010), *Audiovisual Integration in Adults with Autism* Research in Autism Spectrum Disorders 4(2): 276-289.

Rosenthal, Orna, Shimojo, Shinsuke and Shams, Ladan (2009), *Sound-Induced Flash Illusion is Resistant to Feedback Training* Brain Topography 21(3): 185 – 192.

Rosenthal, Orna and Behrmann, Marlene (2006), *Acquiring long-term representations of visual classes following extensive extrastriate damage* Neuropsychologia 44(5):799-815.

Rosenthal, Orna, Fusi Stefano and Hochstein, Shaul (2001), *Forming classes by stimulus frequency: Behavior and theory*. PNAS, 98(7): 4265-4270.

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