The truth behind 'Where's Waldo?'

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As participants searched, their fixational eye movements were simultaneously recorded. Results showed that the rate of microsaccades tiny, jerk-like eye movements dramatically increased when participants found Waldo.

"This discovery helps explain human searching behavior, which can assist us in finding keys on a cluttered desk or recognizing a child's face on a playground," says Dr. Ignacio Serrano-Pedraza, PhD, and fellow researchers Jorge Martinez-Conde, PhD, Susana Martinez-Conde, PhD, and Andrea Bailey, St. Joseph's Hospital and Medical Center.

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St. Joseph's Hospital and Medical Center
Neurological Institute at St. Joseph's Hospital and Medical Center have recently made a major advance in understanding how the brain searches for objects of interest," says Dr. Martinez-Conde.

The central role of microsaccades in visual perception has been a highly debated, and vaguely understood, topic among researchers for decades. The results from the Martinez-Conde lab may help explain the correlation between microsaccades and search behavior, both in the normal brain, and in brains with visual or eye movement deficits.

"We now know there is a direct link between microsaccades and how we search for objects of interest," says Dr. Martinez-Conde. "This link can help with future advancements such as creating neural prosthetics for patients with brain damage or machines that can see as well as humans."

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As by Google: As participants searched, their fixational eye movements were simultaneously recorded. Results showed that the rate of microsaccades tiny, jerk-like eye movements dramatically increased when participants found Waldo.