

# An in-depth vision on perception neural mechanisms of shading and motion object cue processing

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# An in-Depth Vision on Perception Neural Mechanisms of Shading and Motion Object Cue Processing

Britta Graewe, Maastricht, June 2013

1. Curvature estimation of simple 3D objects defined by combined shading and motion visual cues suggests suppressive cue competition instead of enhanced perception compared to single cues (this thesis)
2. Competitive mechanisms between combined shading and motion cues may relate to unique neural processing that fundamentally differs from that of other visual cue combinations (this thesis)
3. Category-specific processing cannot easily be inferred from ERP peak amplitudes when the evoking stimulus is defined by a variety of visual feature dimensions (this thesis)
4. Not only dorsal but also ventral, face-related cortical mechanisms are relevant in describing visual deficits in Mild Cognitive Impairment (MCI) patients (this thesis)
5. Conspicuous gaps in the literature may suggest that prior studies have been performed but did not confirm conventional theories.
6. By studying the healthy brain we will also succeed to better understand pathologies due to brain damage, ageing or disease.
7. Re-running an analysis or an experiment, irrespective of whether or not the preliminary results confirmed the original hypothesis, may ultimately provide more reliable conclusions.
8. Neuroscience can be contemplated to be relevant for many different aspects of life. Yet, the popularity of the pre-fix 'neuro', should not fuel coarse, insufficiently documented claims at the expense of scientific integrity.
9. Reports of (one-tailed) p-values may resemble the behaviour of lions towards zebras, slowly and steadily approaching but rarely retreating from significance.
10. A thing long expected takes the form of the unexpected when at last it comes. *Mark Twain*