

Unconscious Perception of Scenes Reveals a Perceptual Neural Signature of Memorability

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Presentation Abstract Summary While certain images are consistently remembered and others forgotten irrespective of subjective experiences, the spatiotemporal neural circuitry subserving this behavior is yet to be understood. Using MEG data collected while participants viewed a highly rapid serial visual presentation of images, we find that memorable images have a more sustained and stronger perceptual neural signal even though memory encoding was completely masked. Revealing the underlying visual features and neuronal processes that determine the memory fate of a stimulus can guide machine learning to evolve into more human-like performance.

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