

Unconscious Perception of Scenes Reveals a Perceptual Neural Signature of Memorability

Submission ID 3000274
Submission Type Oral Presentation
Topic Neuroscience
Status Submitted
Submitter Yalda Mohsenzadeh
Affiliation MIT

SUBMISSION DETAILS

Presentation Type Oral Presentation

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.

Co-author Information

* Presenting Author

First Name	Last Name	Affiliation	E-mail
Yalda *	Mohsenzadeh *	MIT	yalda@mit.edu
Aude	Oliva	MIT	oliva@mit.edu
Dimitrios	Pantazis	MIT	pantazis@mit.edu

Keywords

Keywords
human visual perception
image memorability
visual masking
rapid serial visual presentation