

Eye movements as windows to the mind: The integration of eye movements, perception, attention, and cognition – Honoring the contributions of Eileen Kowler

Traditionally, eye movements were assumed to be driven by low-level sensory signals. Throughout her career, Eileen Kowler transformed the field by demonstrating that eye movements are not merely reflexive but instead mirror broader aspects of visual perception, including cognitive factors such as prediction and attention. Her work addressed critical issues in eye movement control, ranging from fixational eye movements to the sensorimotor integration of the eyes with vision, head position, and hand reaching movements, as well as how attention, memory, and prediction guide gaze shifts and smooth pursuit eye movements. Her contributions have been instrumental in shaping our current understanding of eye movements as deeply connected to—and scientifically informative about—all aspects of vision science.

For this special issue, we invite research papers that build on Kowler's work and engage with the fundamental questions in the study of vision and eye movements that her research program introduced or addressed.

Submissions accepted through June 1, 2025. Accepted papers will be published as ready in the current monthly issue as well as presented together as a special issue on the *Journal of Vision* website.

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