

Exponent®
Engineering & Scientific Consulting

Helena Palmieri, Ph.D.

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Professional Profile

Dr. Palmieri's work centers on how humans pay attention over time. She is a perception scientist specializing in human behavioral research, focusing on attention modality integration and eye movements. Her expertise in eye-tracking, psychophysics and computational modeling provides unique and comprehensive insights into how humans navigate the world around them.

Dr. Palmieri has extensive training in experimental design, data analysis, modeling, and scientific writing for both experts and novices. Grounded in her background in visual perception, she can analyze human factors and gain insights into situations involving visibility, attention, distraction, trip-and-fall incidents, perception-reaction time analysis, gaze patterns, and visual search.

Dr. Palmieri earned her Ph.D. in the Cognition and Perception program at New York University. Some key topics of her work include temporal attention (how people pay attention to a moment in time), spatial attention (how people pay attention to a specific location), microsaccades (small fixational eye movements), and performance fields (behavioral asymmetries in the visual field). Dr. Palmieri has dedicated the past nine years to advancing her scientific community through teaching, mentoring, and conducting research on human attention and perception. She continues to engage in these pursuits while supporting her clients at Exponent.

Academic Credentials & Professional Honors

Ph.D., Cognition and Perception Psychology, New York University, 2024

M.Phil., Cognition and Perception Psychology, New York University, 2023

M.A., Psychology, New York University, 2019

B.A., Psychology, New York University, 2017

Diversity in Health-Related Research Program Supplemental Grant, NEI (National Eye Institute), NIH (National Institute of Health) 3R01EY019693-08S1 (2020 – 2023).

Academic Appointments

Adjunct, Opportunity Programs, New York University, 2024

Publications

Palmieri H, Carrasco M. Task demands mediates the interaction of spatial and temporal attention. Scientific Reports 2024; 14 (9228)

Palmieri H, Fernandez A, Carrasco M. Microsaccades and temporal attention at different locations of the visual field. Journal of Vision 2023; (6): 1- 17

Kowalchyk M, Palmieri H, Conte E, Wallisch P. Narcissism through the lens of performative self-elevation. Journal of Personality and Individual Differences 2021; 177(1): 110780

Presentations

Palmieri H, Carrasco M. Spatial attention effects dominate over temporal attention. Talk, Vision Sciences Society 23rd Annual Meeting, St. Pete Beach, FL, 2023.

Palmieri H, Fernandez A, Carrasco M. How temporal attention affects microsaccades around the visual field. Poster presentation, Vision Sciences Society 22nd Annual Meeting, St. Pete Beach, FL, 2022.

Peer Reviews

Cognition

Psychonomic Bulletin & Review

Frontiers