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Faculty Research Area

General Area of Research

Visual Psychophysiology

Description of Current Research

I am interested in the processing of color and form information by the visual system. Recent work has focused on the nature of the parallel pathways in humans that are responsible for encoding and transmitting this information, and on the development of these pathways from infancy through adulthood. Psychophysical experiments utilize hue scaling and chromatic adaptation to isolate chromatic and luminance pathways, while physiological studies use the visual evoked potential to study the development of these pathways in humans.

Requirements and Benefits for Student

Essential and Desirable Background Knowledge and Skills

Essential: Good mathematical skills.

Desirable: Some knowledge of experimental design and statistics. Use of quantitative methods and computer analyses of data.

Expected Responsibilities

Run participants in psychophysical and electrophysiological studies. Analyze data. Participate in weekly lab meeting.

Expected Benefits

Learn in depth about visual system function from a developmental and comparative perspective. Learn how to design and execute studies on visual system function. Learn some computer programming.