

SEMINAIRE DE MAÎTRISE
ORIENTATIONS PSYCHOLOGIE COGNITIVE
ET PSYCHOLOGIE DU DEVELOPPEMENT

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**«Task-driven biases in visual pop-out search :
Insights from event-related brain dynamics»**

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«Over the last two decades, there has been accumulating evidence that perceptual coding and selection decisions are modulated by an attention-guiding mechanism, which allocates limited “selection weight” to the various target-defining dimensions (instead of features). According to salience summation models (e.g., Guided search, Dimension-Weighting Account), feature-contrast signals computed in these “dimension maps” are integrated by an overall saliency (or master or priority) map, which determines attention allocation to relevant objects in visual space. While there is a general consensus regarding this saliency-based processing architecture underlying human vision, it remains an ongoing debate whether various task-related factors—including bottom-up saliency, intertrial history, top-down expectancy, task set—can alter initial selection priority and, thus, the guidance of attention. In this talk, I will present a series of visual pop-out search studies that combined mental chronometry with electroencephalographic measures (Posterior Contralateral Negativity, frontal midline theta oscillations) to provide deeper insights into this issue. »



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