



FROM FOLLOWING DOTS TO UNDERSTANDING SCENES

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Abstract

Most research uses simplified experiments with artificial stimuli to gain insights into visually guided behavior. With a focus on oculomotor control, I will discuss some examples where these kinds of experiments allowed us critical insights into sensorimotor processing. Afterward, I will change the perspective. So far, a critical assumption for these simplified experiments remains largely untested: the extent to which evidence gathered in artificial experiments can be generalized to understand more complex natural behaviors. To address this, I will show examples of how we tried to fill this gap by directly comparing and relating results obtained with artificial stimuli to behavior in more natural contexts. Our results emphasize the additional possibilities of using controlled naturalistic stimuli and demonstrate that natural behavior can be driven by different cues and mechanisms than often assumed in artificial experiment

Biosketch

I am fascinated by how effortlessly the brain is controlling our actions and constructs our perception of the world. My research centers on eye movements and how we can use them to understand how the brain makes predictions, how we integrate our experience into our current behavior and whether we can use eye movements as a tool for applied research on image quality.



Hosted by: **Cristina de la Malla**
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