UNIVERSIDAD DE GRANADA

Máster Universitario en
Neurociencia Cognitiva
y del Comportamiento

Talk by Dr. Hongjin Sun "Visual attention in 3D space"

Desde el Mar, 13/12/2022 - 12:00 hasta el Mar, 13/12/2022 - 12:00

Title: Visual attention in 3D space
Speaker: Dr. Hongjin Sun, Department of
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Date, time, and venue: December 13th, 11.00am,
Sala de conferencias 2 CIMCYC

Abstract: Visual spatial attention enables
processing of some regions of the visual
environment more than others. In 2-dimensional
space, it has been well established that visual
attention monotonically decreases in a graded
fashion with increasing distance from an attended location. In 3-dimentional space,
we have discovered that humans are more sensitive to events (e.g., an onset of an
object) in near compared to far locations, despite the visual events in near and far
locations being matched for visual angle and luminance. In this talk, I will show that
such effect of depth on attention in scenarios where (1) participants detect a single
target appearing in various eccentricities and depth planes (Li et al, 2011 and Song
et al 2021, see attached) and 2) target detection when attention has to switch
between depths after attention is drawn to a different depth plane by an exogenous
cue (spatial cueing paradigm).

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